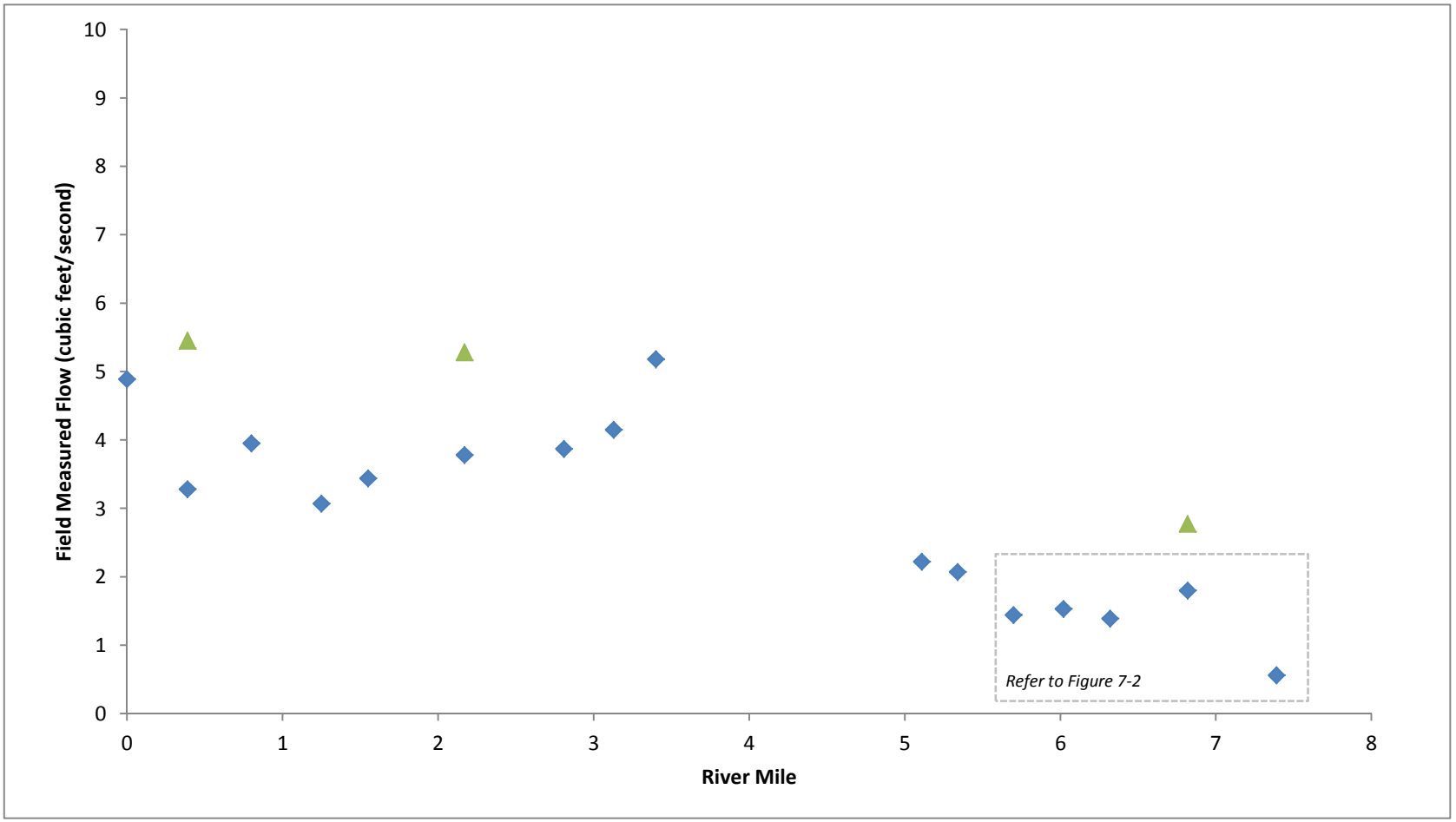


LEGEND: ◆ July 2011 Stream Flow Survey - Base Flow Conditions

▲ July 2011 Daily Flow as Estimated from Water Elevation

NOTES:

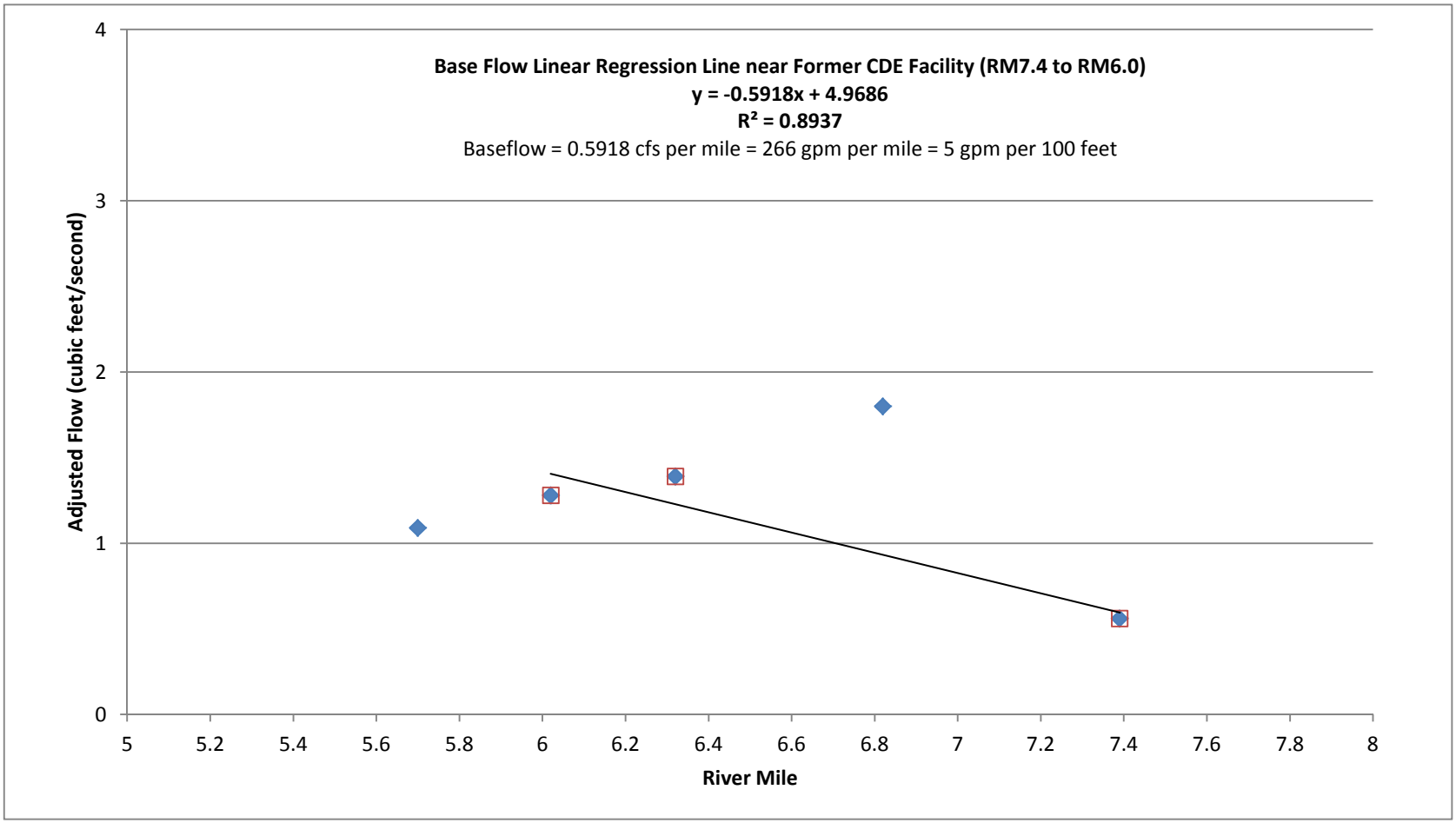
1. July 2011 flows (three day event) were measured using a Marsh McBernie flow meter. Flows were calculated assuming a trapezoid configuration of the brook.
2. Daily flow at water level meters was estimated using a log-based rating curve, generated from monthly flow and elevation field data (recorded with Solinst Junior Model M5, pressure transducer).
3. Flows represent total measured in-stream flows. Flows from culverts and tributaries are not presented in figure.

Cornell-Dubilier Electronics Superfund Site
South Plainfield, NJ

Bound Brook Stream Flow Survey: July 2011
Bound Brook OU4 RI/FS

2013

FIGURE 7-1



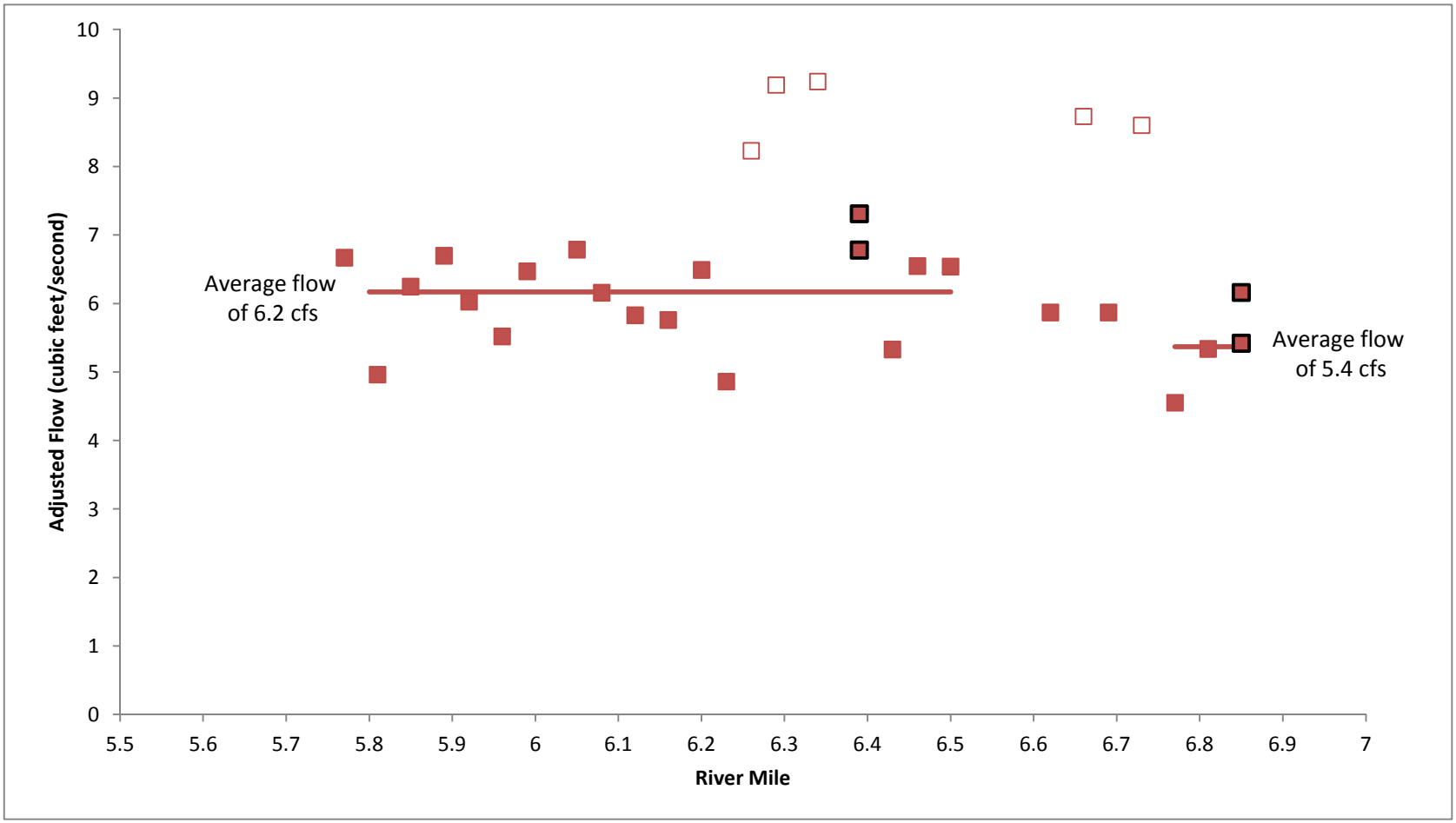
LEGEND:

- July 2011 Stream Flow Survey - Base Flow Conditions (adjusted for culvert contribution at RM6.3)
- July 2011 Stream Flow Survey - Data included in regression

NOTES:

1. July 2011 flows were measured using a Marsh McBernie flow meter. Flows were calculated assuming a trapezoid configuration of the brook.
2. Flows were adjusted to remove contributions from tributaries and culverts.
3. Linear regression line calculated using Microsoft Excel software for data measured between RM6.0 and RM7.4. Cedar Brook converges with Bound Brook at RM5.75.

	Cornell-Dubilier Electronics Superfund Site South Plainfield, NJ	**Bound Brook Estimated Base Flow near the Former CDE Facility** *Bound Brook OU4 RI/FS*	2013 FIGURE 7-2



LEGEND:

- May 2012 Stream Flow Survey (values included in average)
- May 2012 Stream Flow Survey (values not included in average)
- May 2012 Stream Flow Survey (replicate measurements collected on the second day)

NOTES:

1. May 2012 flows (two day event) were measured using a Marsh McBernie flow meter. Flows were calculated assuming a trapezoid configuration of the brook.
2. Flows were adjusted to remove contributions from tributaries and culverts.
3. Elevated flow values (marked as hollow red squares) are likely erroneous and associated with changes in channel geometry or incorrect velocity measurements.
4. Stream flow survey occurred over two days. Symbols with black outline represent replicate measurements to document error in flow during the course of the survey.

Cornell-Dubilier Electronics Superfund Site
South Plainfield, NJ

Bound Brook Stream Flow Survey: May 2012
Bound Brook OU4 RI/FS

2013

FIGURE 7-3

Legend

- Main Investigation Area
- Optional Investigation Area
- Bound Brook Centerline River Mile (RM)
- Former CDE Facility
- May 2012 Stream Flow Survey
- 2011 Low Resolution Sediment Cores

Groundwater Flux Reaches

- Reach 1
- Reach 2
- Reach 3
- Reach 4

0 75 150 300 Feet

Notes: Aerial Base Map Service - obtained by ESRI provided by Microsoft Corp © 2008 - 2012.

KEY MAP

1 2 3

OAKMOOR AVE

Cedar Brook

SF55 SF53 5.9 SF51 SF49 SF47 BB-T319B BB-T319A SF43 BB-T323B SF42 BB-T323A SF41 6.1 SF40

REACH 4

SF57 BB-T309B BB-T309A SF62 SF59 SF61 BB-T304A BB-T304B 5.7

FULASKI ST

ELSIE AVE

NEW MARKET AVE

Cornell-Dubilier Electronics
Superfund Site
South Plainfield, New Jersey

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Stream Flow Survey and Water Quality Sampling Locations
Bound Brook OU4 RI/FS

2013

Figure 7-4
Sheet 1 of 3

Legend

- Main Investigation Area
- Optional Investigation Area
- Bound Brook Centerline River Mile (RM)
- Former CDE Facility
- May 2012 Stream Flow Survey
- 2011 Low Resolution Sediment Cores

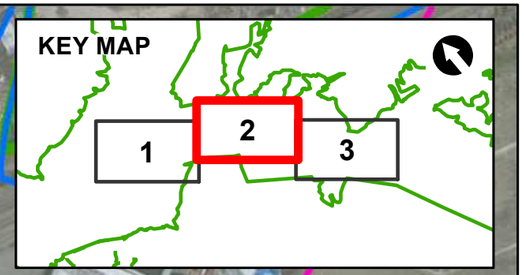
Groundwater Flux Reaches

- Reach 1
- Reach 2
- Reach 3
- Reach 4

0 75 150 300 Feet

Notes: Aerial Base Map Service - obtained by ESRI provided by Microsoft Corp © 2008 - 2012.

KEY MAP



REACH 1

REACH 2

REACH 3

REACH 4

SF18 SF19 SF20 SF21 SF22 SF23 SF25 SF26 SF27 SF29 SF30 SF31 SF32 SF33 SF34 SF35 SF36 SF38 SF39 SF40 SF41 SF42 SF43

6.1 6.2 6.3 6.4 6.5

BB-T323A BB-T323B BB-T328A BB-T328B BB-T333A BB-T333B BB-T337A BB-T337B BB-T339A BB-T339B BB-T344A BB-T344B BB-T346A BB-T346B BB-T348A BB-T348B BB-T350A BB-T350B

OAK TREE RD FRONT ST KANE AVE MILL ST LAKEVIEW AVE CHURCH ST LAKEVIEW AVE HANCOCK ST HAMILTON BLVD BERGEN ST ELSIE AVE PULASKI ST

Cornell-Dubilier Electronics
Superfund Site
South Plainfield, New Jersey

DRAFT FINAL

Stream Flow Survey and Water Quality Sampling Locations
Bound Brook OU4 RI/FS

2013

Figure 7-4
Sheet 2 of 3

Legend

- Main Investigation Area
- Optional Investigation Area
- Bound Brook Centerline River Mile (RM)
- Former CDE Facility
- May 2012 Stream Flow Survey
- 2011 Low Resolution Sediment Cores

Groundwater Flux Reaches
- Reach 1
- Reach 2
- Reach 3
- Reach 4

0 75 150 300 Feet

Notes: Aerial Base Map Service - obtained by ESRI provided by Microsoft Corp © 2008 - 2012.

KEY MAP

1 2 3

REACH 1

FRONT ST

BB-T346B
BB-T348A
BB-T348B
BB-T346A
SF21
SF20
SF19
SF18
6.5

BB-T350B
BB-T350A
BB-T353B
BB-T353A
SF13
SF12
6.6

SF11
SF10
SF9
SF8
SF7
SF6
SF5
SF4
6.7

BB-T363B
BB-T363A
SF3
SF2
SF1
6.8
6.9

METUCHEN RD

BELMONT AVE

KENNETH AVE

Spicer Ave

SPICER AVE

FULTON ST

Inset
Sample Location Near Talmadge Bridge

PW01
8.3
TALMADGE RD

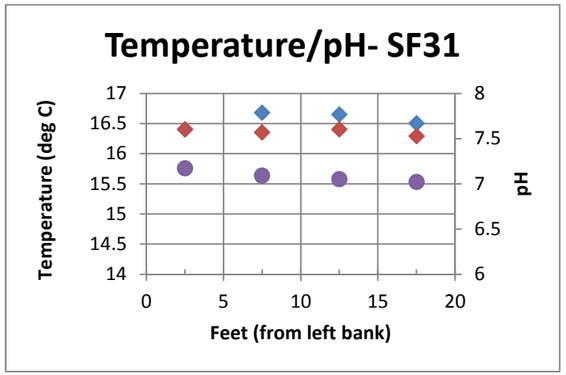
Cornell-Dubilier Electronics
Superfund Site
South Plainfield, New Jersey

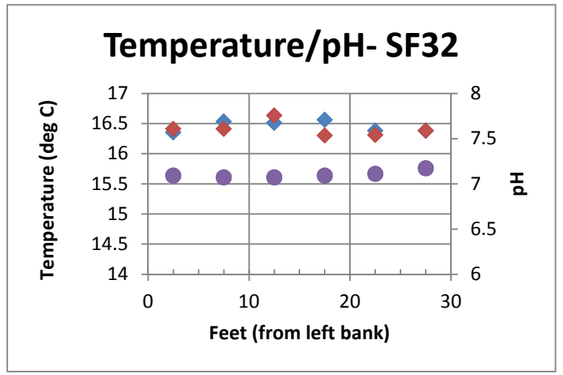
DRAFT FINAL

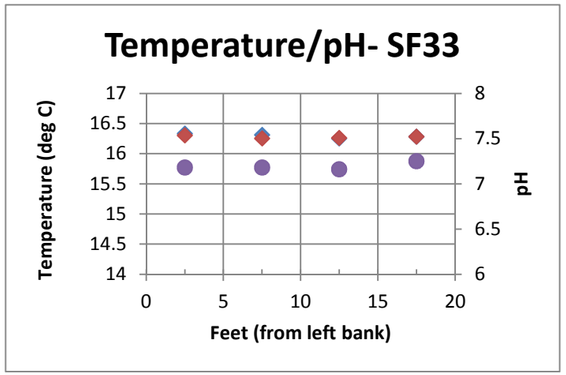
Stream Flow Survey and Water Quality Sampling Locations
Bound Brook OU4 RI/FS

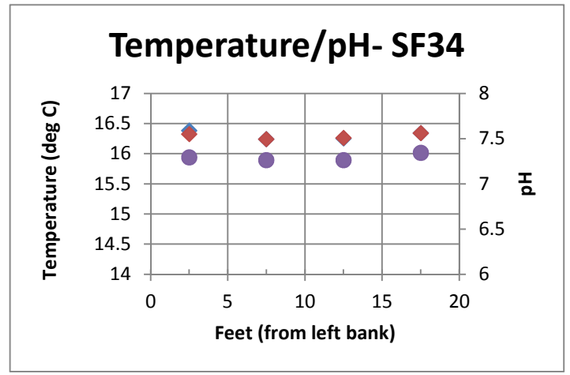
2013

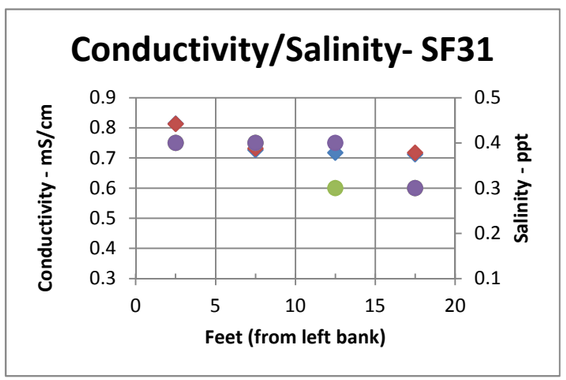
Figure 7-4
Sheet 3 of 3

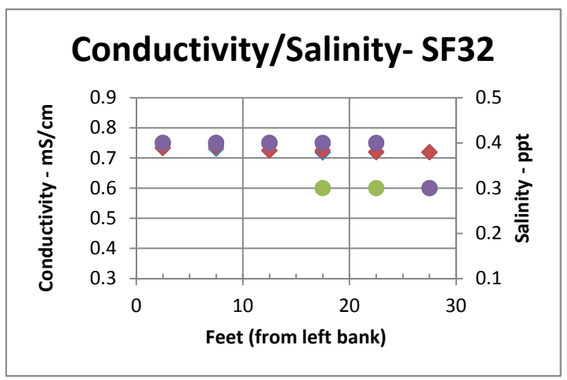


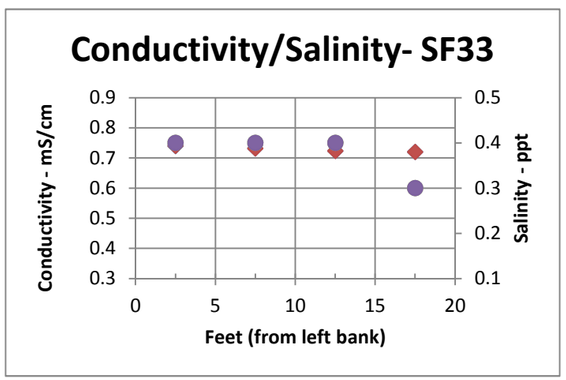


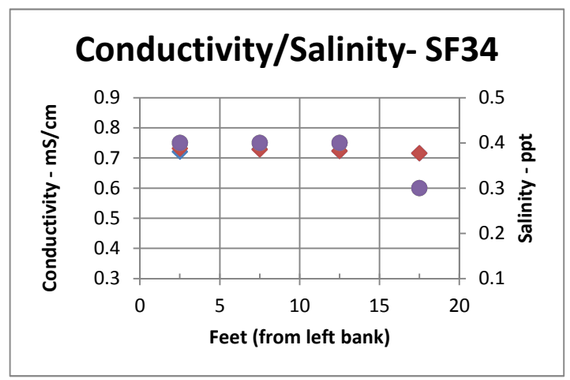


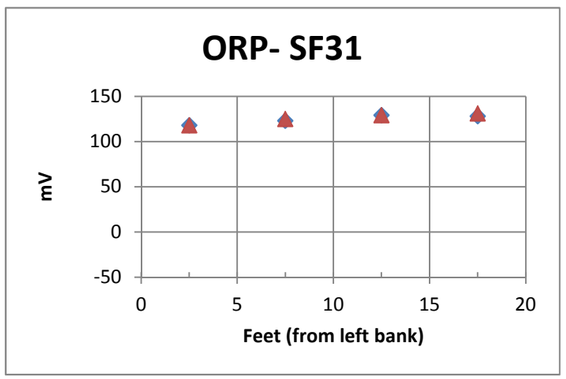


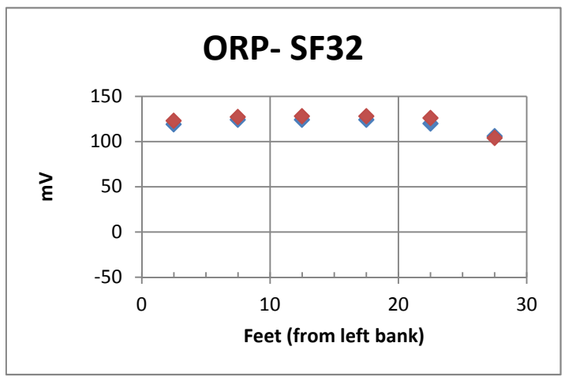


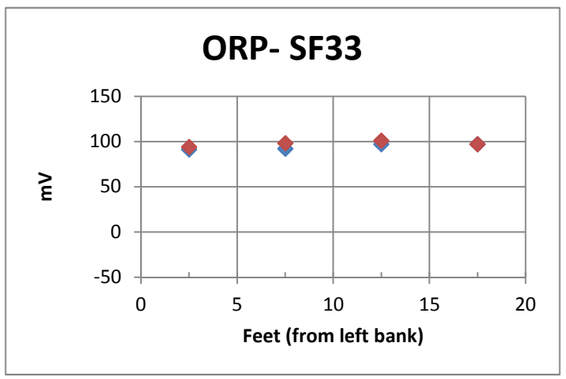


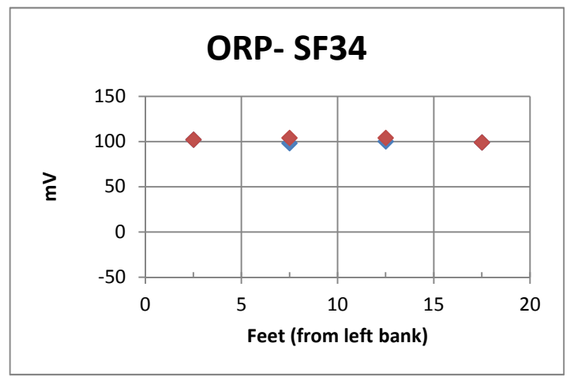












LEGEND:
- Conductivity, Temperature, and ORP at top of water column
- Conductivity, Temperature, and ORP at bottom of water column
- Salinity and pH at top of water column
- Salinity and pH at bottom of water column

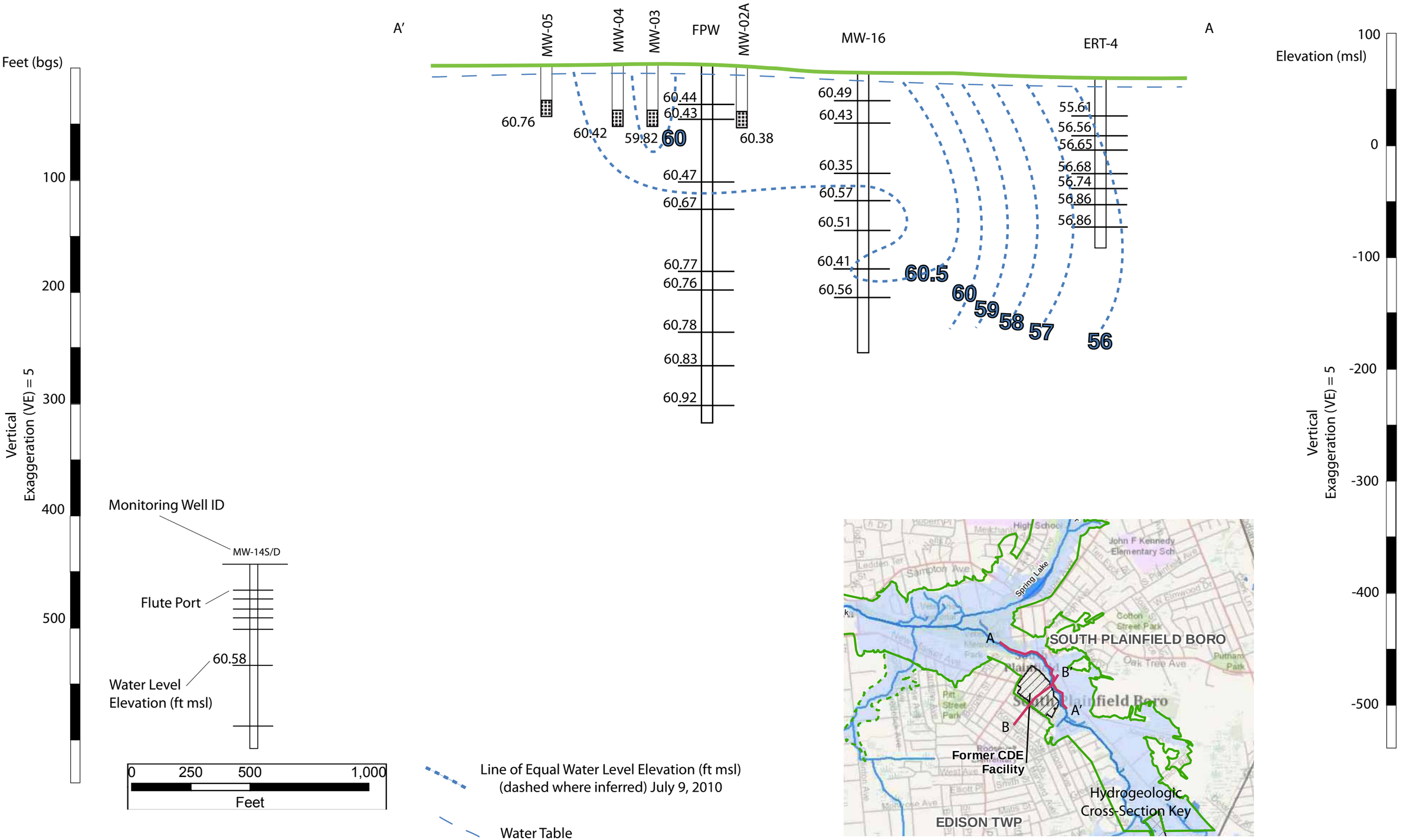
NOTES:
1. Measurements collected with a Horiba U52 (calibrated by manufacturer).
2. ORP denotes "Oxidation Reduction Potential" and "SF" denotes Stream Flow Transect number. Transects were spaced approximately 100 ft apart from RM5.7 to RM6.9. SF31 through SF34 were located between RM6.2 and RM6.3.
3. Stream Flow/Water Quality Survey conducted between May 7-9, 2012. Refer to Appendix F for complete set of water quality measurements.

Cornell-Dubilier
Electronics Superfund Site
South Plainfield, NJ

Water Quality Field Measurements along Transects SF31 to SF34
May 2012 Stream Flow Survey
Bound Brook OU4 RI/FS

2013

FIGURE 7-5



CORNELL-DUBILIER ELECTRONICS
SUPERFUND SITE
South Plainfield, New Jersey

OU3 Groundwater and Surface Water Elevations with Hydraulic Contours (A-A')
Bound Brook OU4 RI/FS

2013

Figure 7-6

B

B'

ERT-8

MW-15S/D

MW-14S/D

MW-11

MW-04

PW-08

SG-1

MW-13

58.59

Feet (bgs)

Elevation (msl)

100

0

-100

-200

-300

-400

-500

100

200

300

400

500

Vertical Exaggeration (VE) = 2.5

61.56
60.94
60.86
60.96
60.92
60.86

61

60.56
60.54
60.60
60.58

60.88
60.82
60.66
60.69
60.74
60.66
60.66
60.71

60.42

59

60

60.29
60.01
60.43
60.67
60.77
60.77
60.80

Pore Water Sampling Location

Monitoring Well ID

Event 1/Event 2 (ug/L)

MW-14S/D

PW-08

Flute Port

60.58

Stream Gage

Water Level Elevation (ft msl)

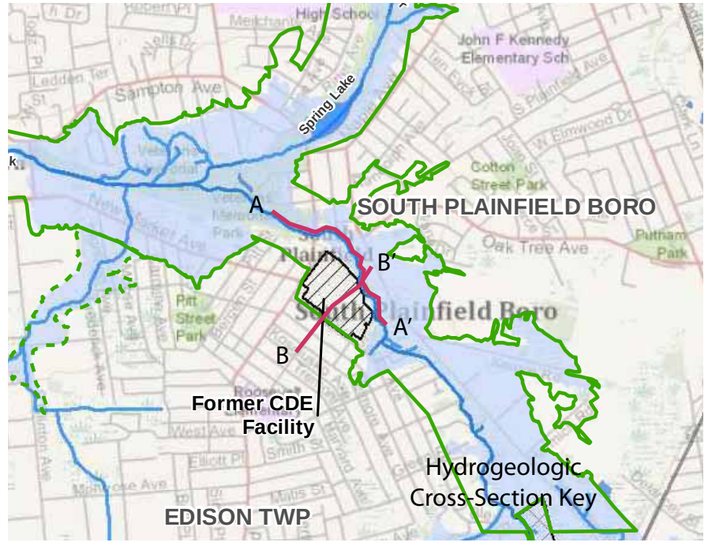
SG-1

0 125 250 500

Feet

Line of Equal Water Level Elevation (ft msl) (dashed where inferred) July 9, 2010

Water Table



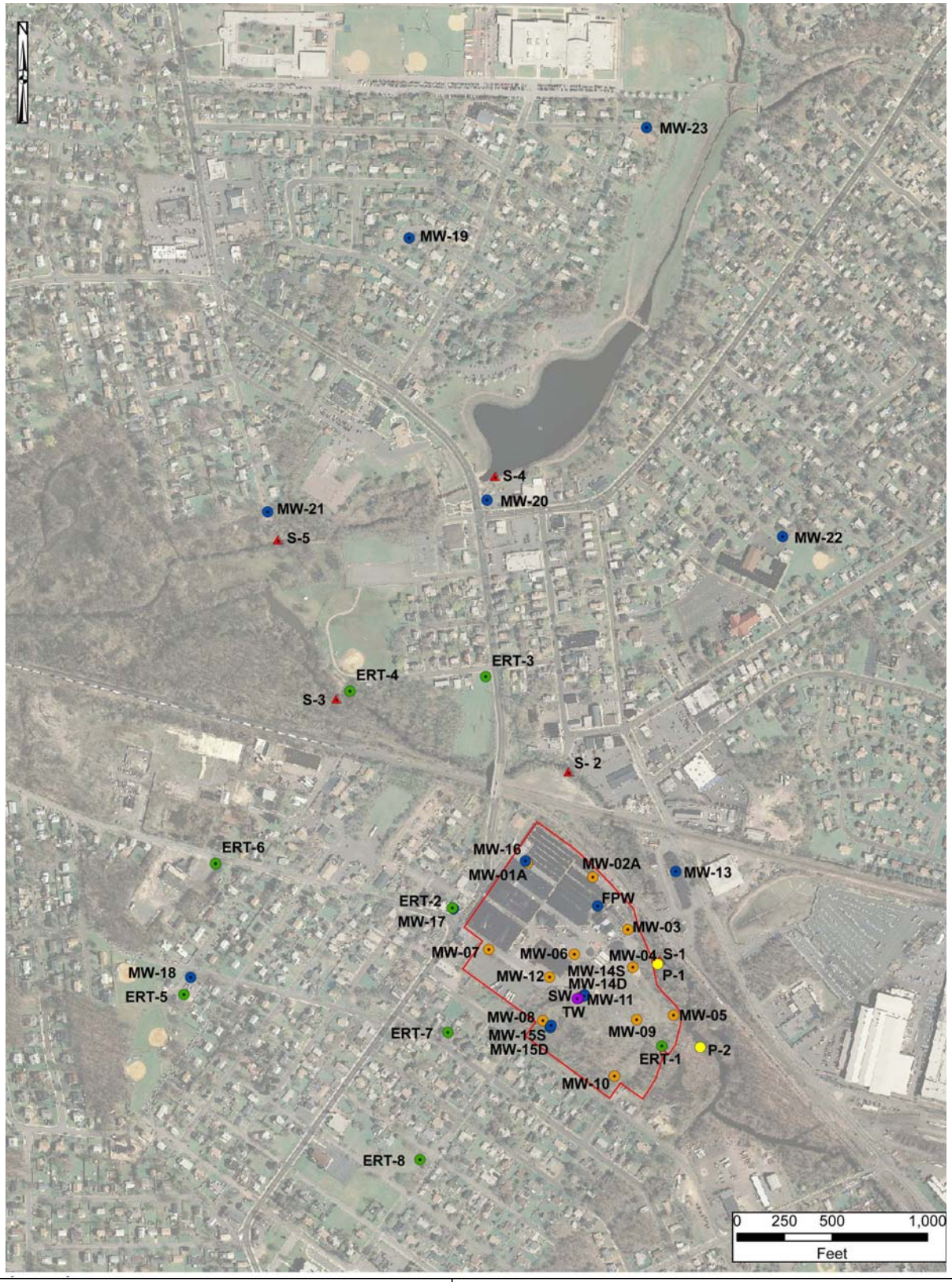
CORNELL-DUBILIER ELECTRONICS
SUPERFUND SITE
South Plainfield, New Jersey

DRAFT FINAL

OU3 Groundwater and Surface Water Elevations with Hydraulic Contours (B-B')
Bound Brook OU4 RI/FS

2013

Figure 7-7



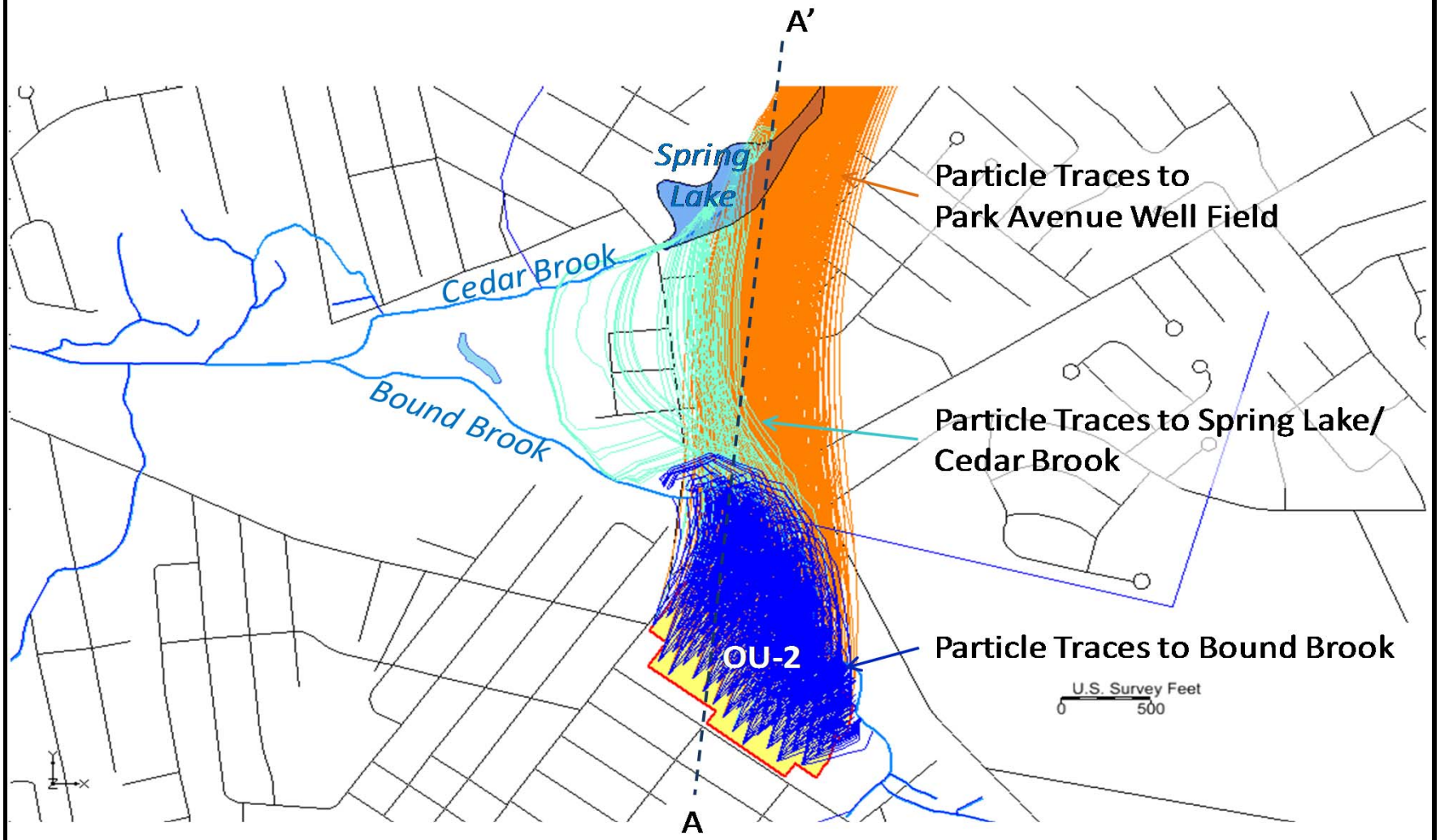
LEGEND:

- Former CDE Facility
- 2008 Flute™ Well
- Test Well
- Staff Gage
- 2009-2010 Flute™ Well
- Shallow Bedrock Monitoring Well
- Piezometer

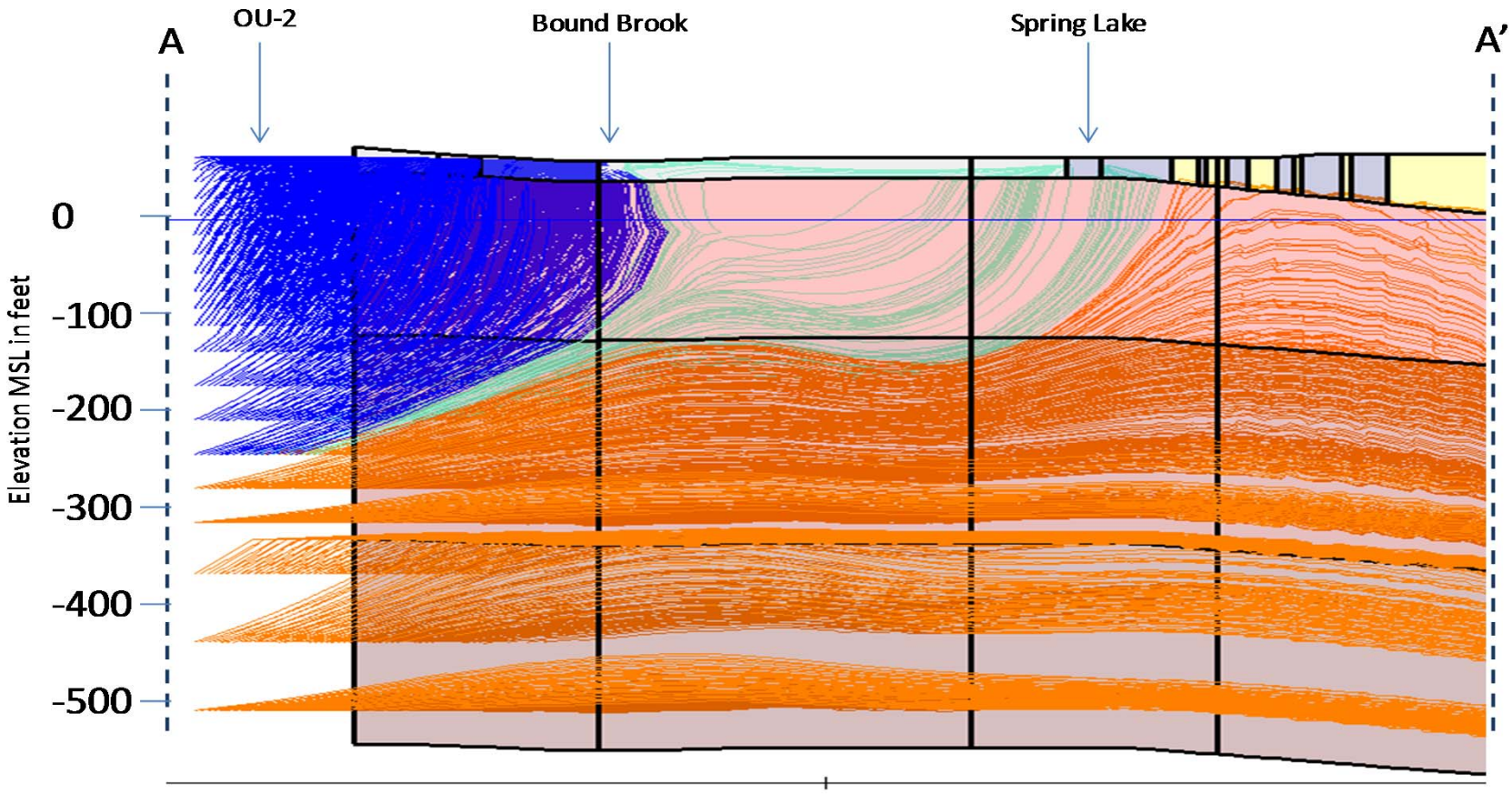
NOTES:

Reference: Figure 3-1 from Final Remedial Investigation Report Operable Unit 03: Ground Water (LBG/MP, 2012)

	Cornell-Dubilier Electronics Superfund Site South Plainfield, NJ	**Monitoring Well, Test Well, Piezometer, and Staff Gage Locations** *Bound Brook OU4 RI/FS*	2013 FIGURE 7-8



	Cornell-Dubilier Electronics Superfund Site South Plainfield, NJ	**OU3 RI Model-Predicted Particle Traces from Former CDE Facility Based on 2010 Pumping** *Bound Brook OU4 RI/FS*	2013 Figure 7-9a



	Cornell-Dubilier Electronics Superfund Site South Plainfield, NJ	**OU3 RI Model-Predicted Particle Traces from Former CDE Facility Based on 2010 Pumping Cross Section A – A'** *Bound Brook OU4 RI/FS*	2013 Figure 7-9b

KEY MAP

Legend

- Main Investigation Area
- Optional Investigation Area
- Bound Brook Centerline River Mile (RM)
- Former CDE Facility
- PCB Surface Water
- VOC Porewater, PCB Porewater, and PCB Surface Water
- May 2012 Stream Flow Survey
- 2011 Low Resolution Sediment Cores

Groundwater Flux Reaches

- Reach 1
- Reach 2
- Reach 3
- Reach 4

0 100 200 400 Feet

Notes: Aerial Base Map Service - obtained by ESRI provided by Microsoft Corp © 2008 - 2012.

Inset
Sample Location at RM 5.8

Inset
Sample Location Near Talmadge Bridge

REACH 1
REACH 2
REACH 3
REACH 4

PW01 PW02 PW03 PW04/05 PW06/07 PW08 PW09/10 PW11 PW12 PW13/14 PW15 PW16/17 PW18 PW19 PW20

SF03 SF04 SF05 SF06 SF07 SF08 SF09 SF10 SF11 SF12 SF13 SF18 SF19 SF20 SF21 SF22 SF23 SF25 SF26 SF27 SF29 SF30 SF31 SF32 SF33 SF34 SF35 SF36 SF38 SF39

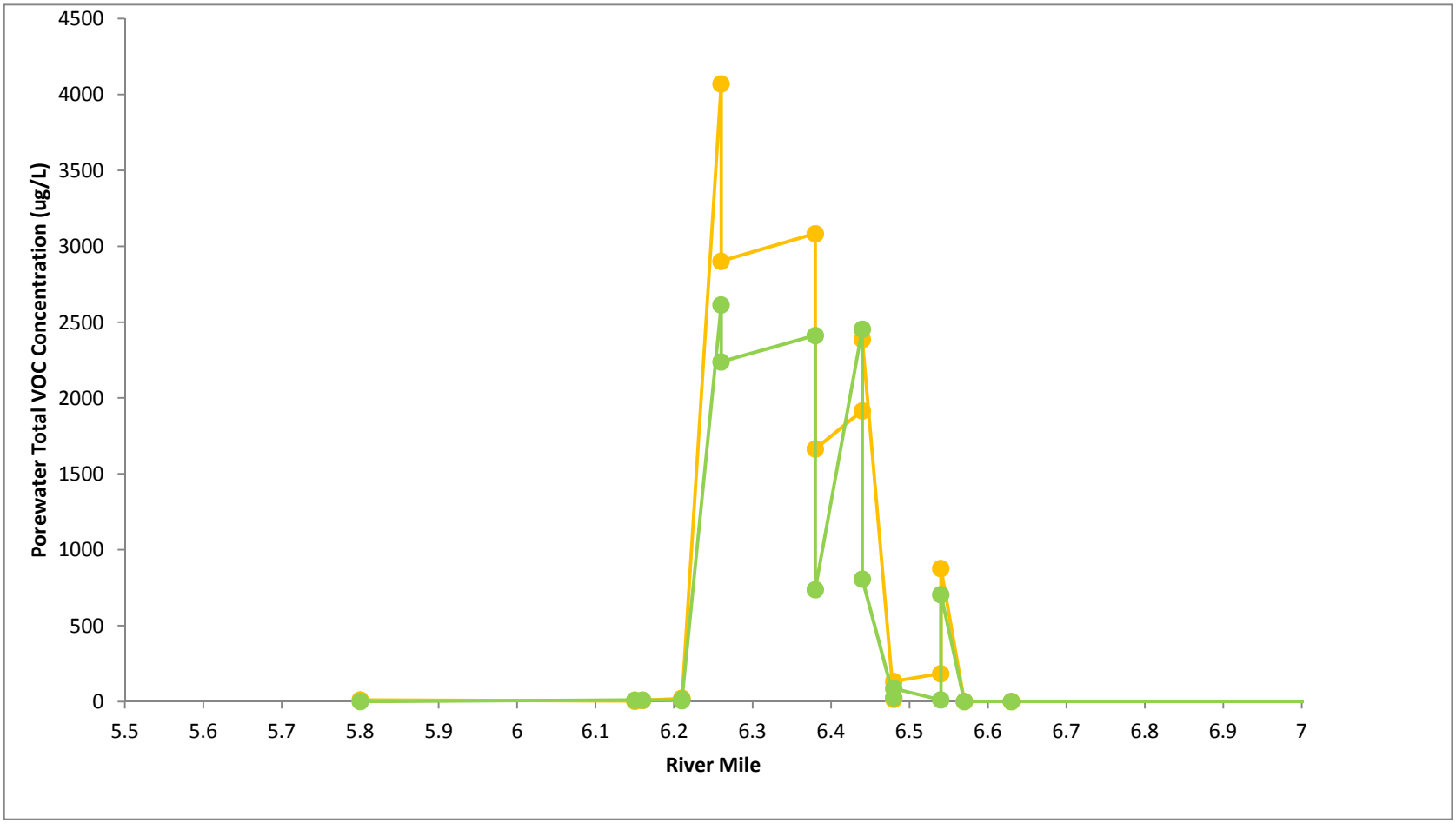
BB-T328A BB-T328B BB-T333A BB-T333B BB-T337A BB-T337B BB-T339A BB-T339B BB-T344A BB-T344B BB-T346A BB-T346B BB-T348A BB-T348B BB-T350A BB-T350B BB-T353A BB-T353B BB-T363A BB-T363B

5.7 5.9 6 8.3 6.2 6.3 6.4 6.5 6.6 6.7 6.8

CHURCH ST
HAMILTON BLVD
OAK TREE RD
FRONT ST
LAKEVIEW AVE
HANCOCK ST
BERGEN ST
NEW MARKET AVE
HAMILTON BLVD
METUCHEN RD
BELMONT AVE
TALMADGE RD

	Cornell-Dubilier Electronics Superfund Site South Plainfield, New Jersey	**Porewater and Surface Water Sampling Locations** *Bound Brook OU4 RI/FS*	2013 Figure 7-10

DRAFT FINAL



LEGEND:

- Porewater Total VOC Concentration (ug/L) - Sampling Event 1
- Porewater Total VOC Concentration (ug/L) - Sampling Event 2

NOTES:

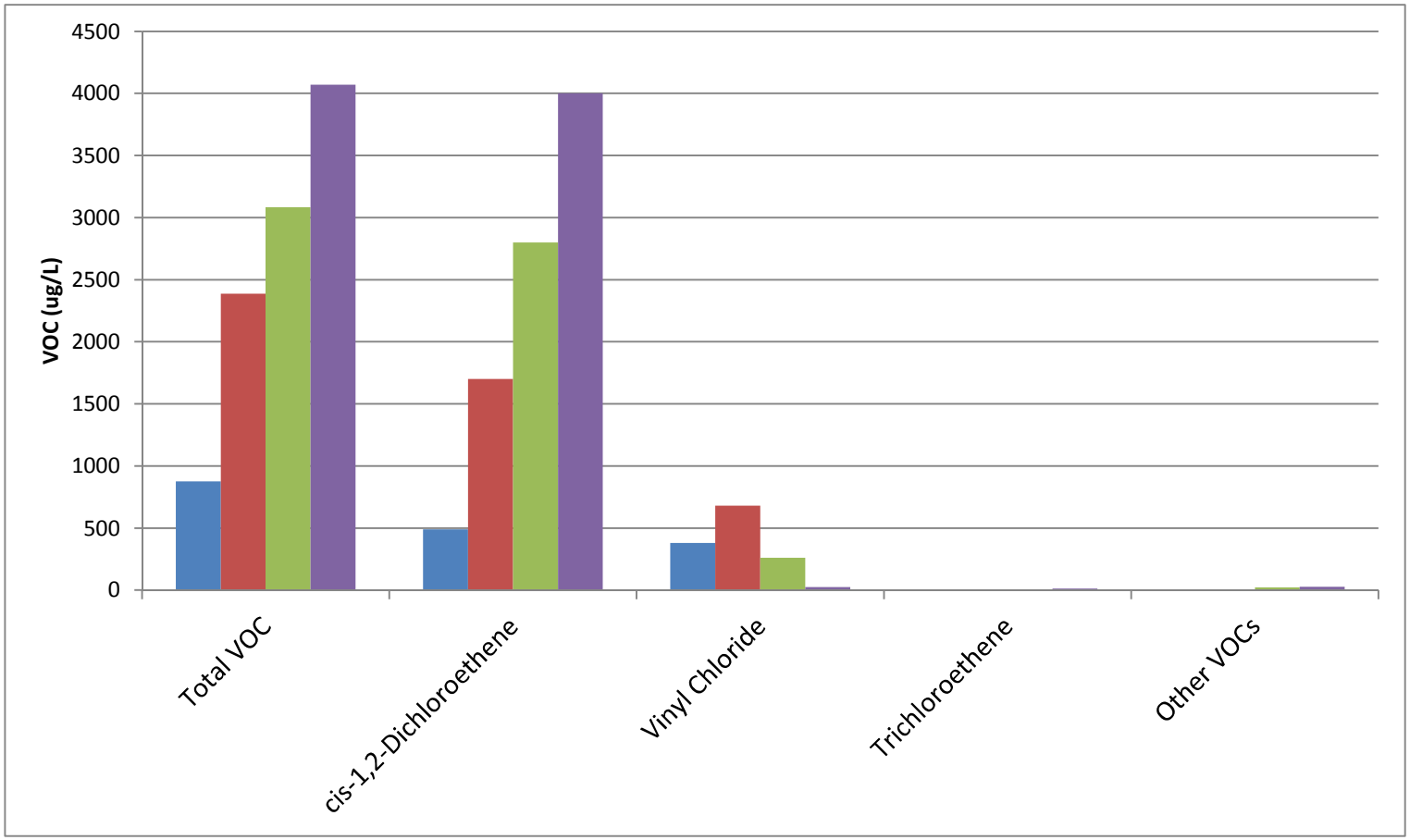
1. Porewater VOC concentrations measured using polyethylene passive diffusion bags deployed for two sampling events. First event: Deployed July 11-17, 2012, Retrieved July 24-25, 2012. Second event: Deployed July 24-25, 2012, Retrieved August 21-24, 2012.
2. It is assumed that the concentration of dissolved VOCs inside the passive diffusion bag reached equilibrium with the surrounding porewater and no further internal corrections on the data were performed.
3. Total VOC represents the summation of detected TCL VOC analytes.

Cornell-Dubilier Electronics Superfund Site
South Plainfield, NJ

Bound Brook Porewater Total VOC Concentrations near the Former CDE Facility
Bound Brook OU4 RI/FS

2013

FIGURE 7-11



LEGEND:

- RM 6.54 - PW04
- RM 6.44 - PW08
- RM 6.38 - PW10
- RM 6.26 - PW14

NOTES:

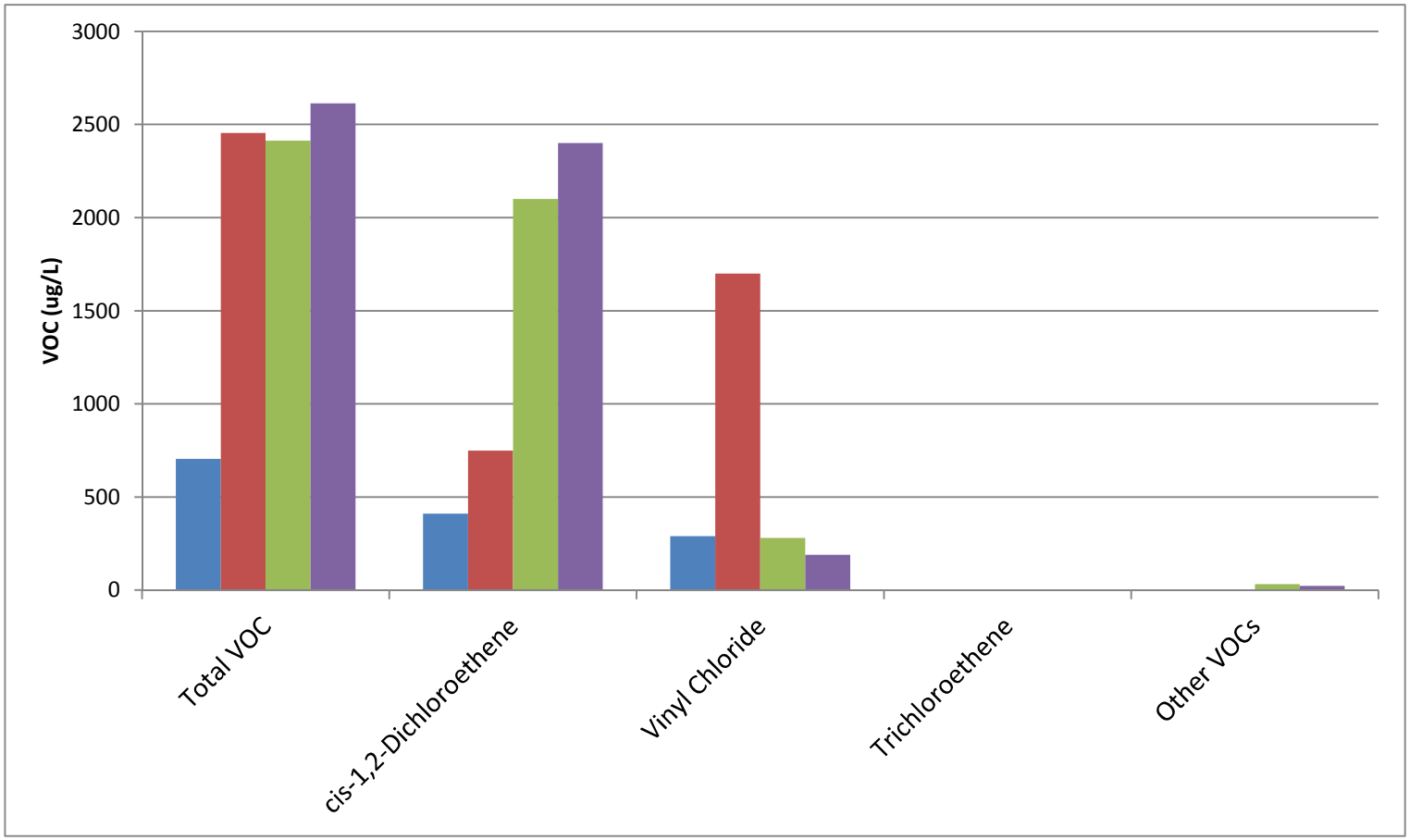
1. Porewater VOC concentrations measured using polyethylene passive diffusion bags deployed for two sampling events. First event: Deployed July 11-17, 2012, Retrieved July 24-25, 2012. Second event: Deployed July 24-25, 2012, Retrieved August 21-24, 2012.
2. The 4 locations with the highest Total VOC concentrations are presented.
3. Nondetected concentrations are not included in the Total VOC summation.

Cornell-Dubilier Electronics Superfund Site
South Plainfield, NJ

Comparison of VOC Distribution in Porewater Samples: Sampling Event 1
Bound Brook OU4 RI/FS

2013

FIGURE 7-12a



LEGEND:

- RM 6.54 - PW04
- RM 6.44 - PW08
- RM 6.38 - PW10
- RM 6.26 - PW14

NOTES:

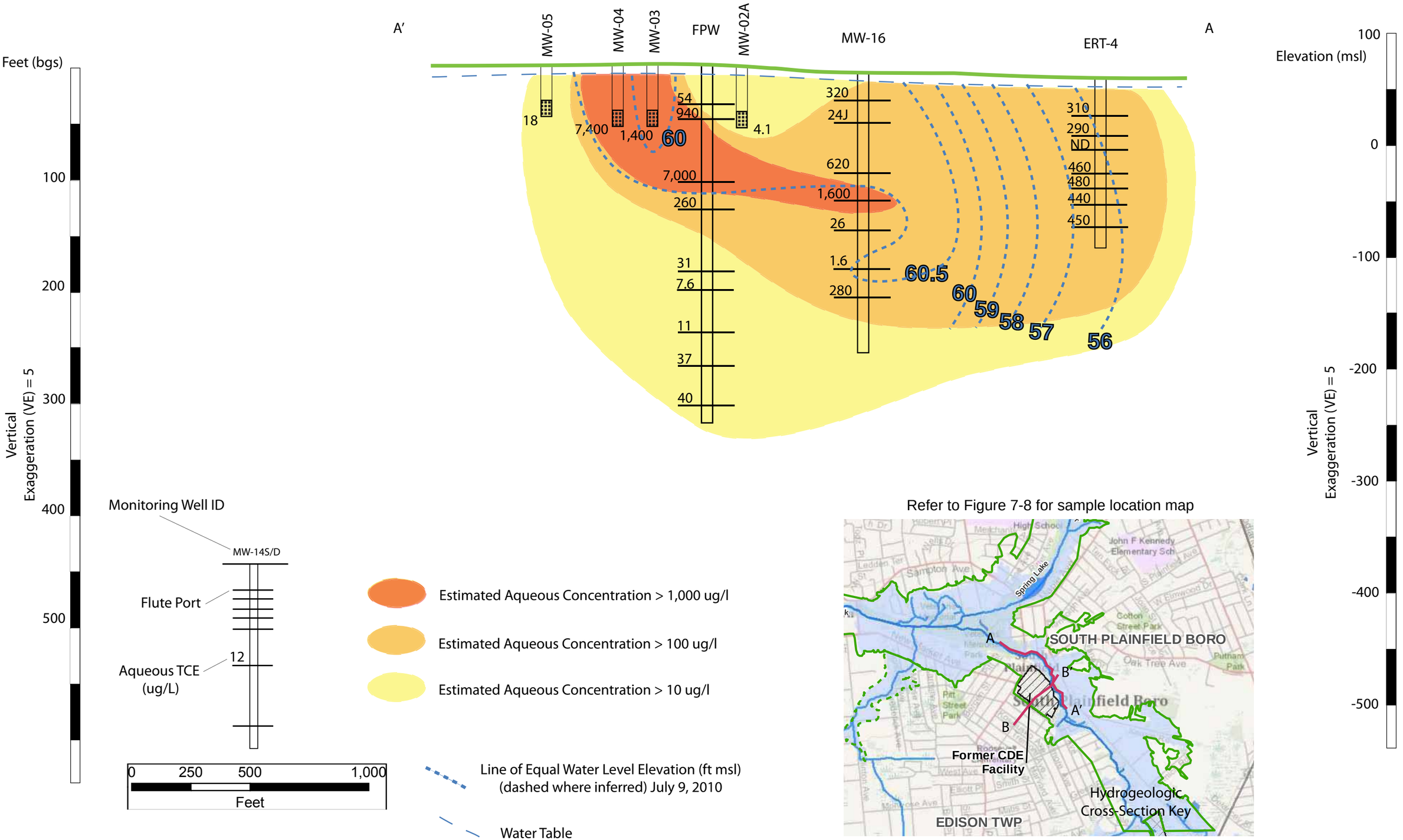
1. Porewater VOC concentrations measured using polyethylene passive diffusion bags deployed for two sampling events. First event: Deployed July 11-17, 2012, Retrieved July 24-25, 2012. Second event: Deployed July 24-25, 2012, Retrieved August 21-24, 2012.
2. The 4 locations with the highest Total VOC concentrations are presented.
3. Nondetected concentrations are not included in the Total VOC summation.

Cornell-Dubilier Electronics Superfund Site
South Plainfield, NJ

Comparison of VOC Distribution in Porewater Samples: Sampling Event 2
Bound Brook OU4 RI/FS

2013

FIGURE 7-12b



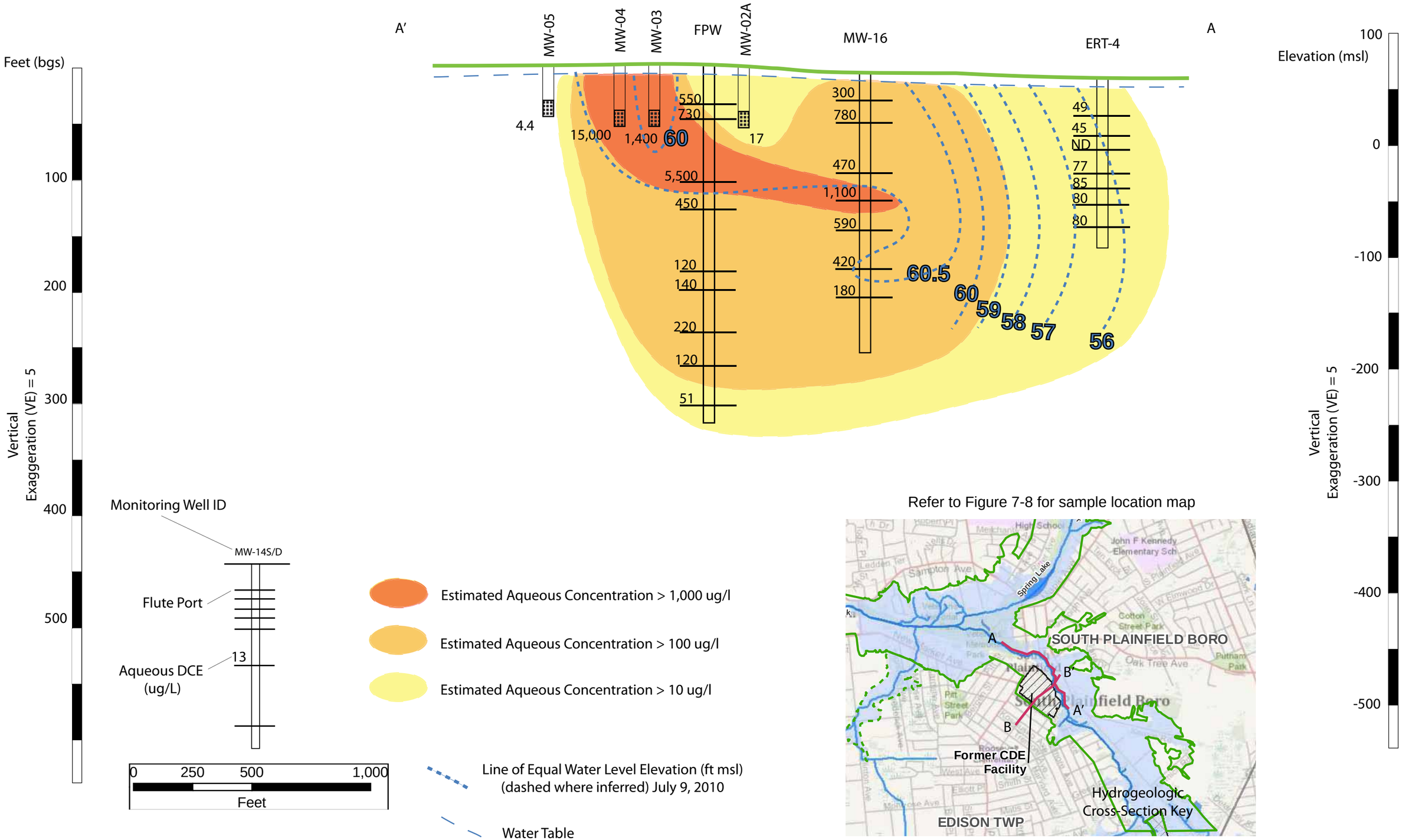
CORNELL-DUBILIER ELECTRONICS
SUPERFUND SITE
South Plainfield, New Jersey

DRAFT FINAL

OU3 Groundwater and OU4 Porewater TCE Concentrations with Isocontours (A-A')
Bound Brook OU4 RI/FS

2013

Figure 7-13



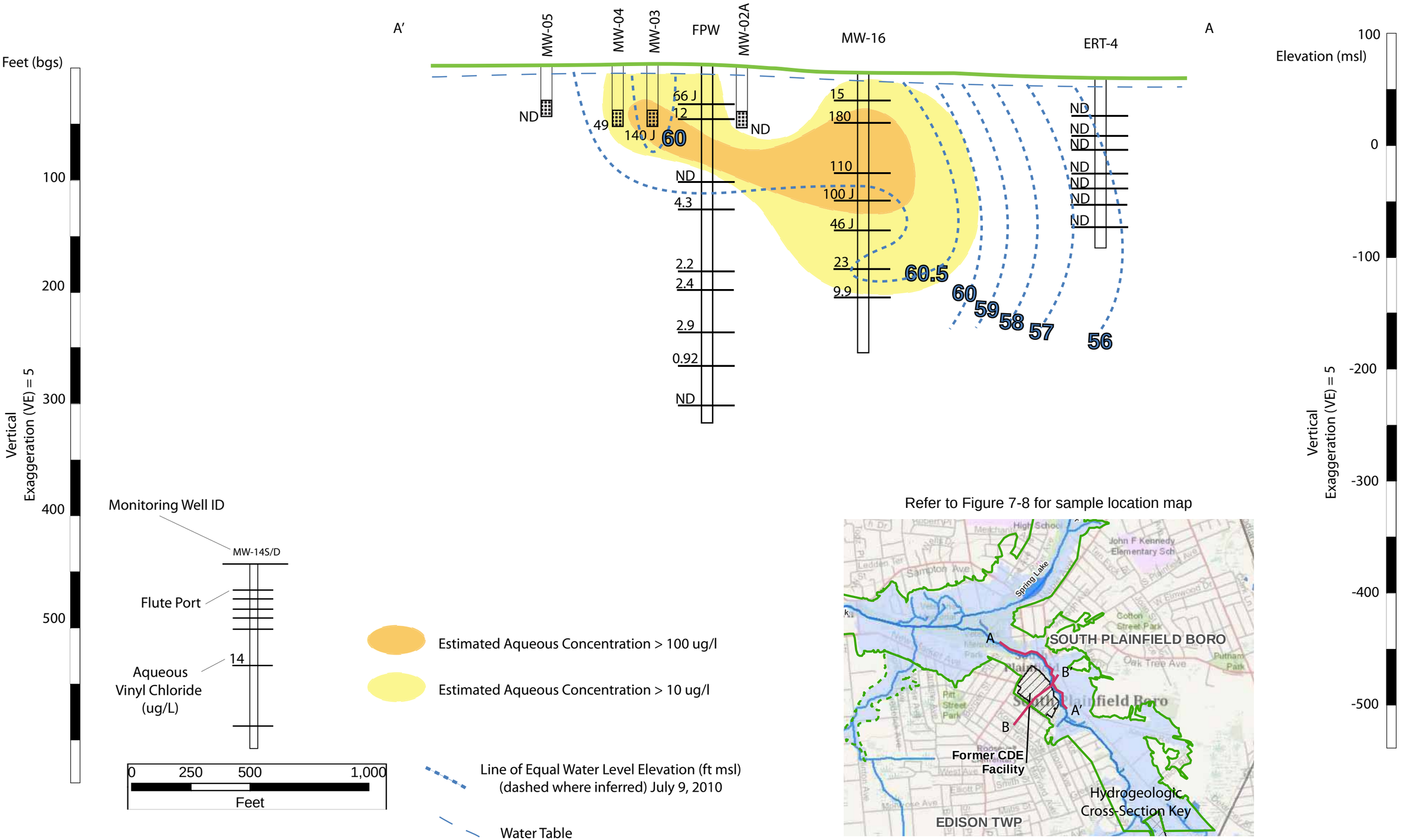
CORNELL-DUBILIER ELECTRONICS
SUPERFUND SITE
South Plainfield, New Jersey

DRAFT FINAL

OU3 Groundwater and OU4 Porewater DCE Concentrations with Isocontours (A-A')
Bound Brook OU4 RI/FS

2013

Figure 7-14



CORNELL-DUBILIER ELECTRONICS
SUPERFUND SITE
South Plainfield, New Jersey

DRAFT FINAL

OU3 Groundwater and OU4 Porewater Vinyl Chloride Concentrations with Isocontours (A-A')
Bound Brook OU4 RI/FS

2013

Figure 7-15

B

B'

ERT-8

MW-15S/D

MW-14S/D

MW-11

MW-04

PW-08

SG-1

MW-13

ND/ND

Feet (bgs)

Elevation (msl)

100

0

-100

-200

-300

-400

-500

100

200

300

400

500

Vertical Exaggeration (VE) = 2.5

ND
ND
ND
ND
ND
ND
ND

61

1,400
320
15
12

17,000
19,000
11,000
1,700
40 J
23,000
18
28

7,400

59
60

4.8
21
49
150
55
60
48

Pore Water Sampling Location

Monitoring Well ID

MW-14S/D

PW-08

Event 1/Event 2 (ug/L)

Flute Port

Aqueous TCE (ug/L)

12

Stream Gage

SG-1

Estimated Aqueous Concentration > 1,000 ug/l

Estimated Aqueous Concentration > 100 ug/l

Estimated Aqueous Concentration > 10 ug/l

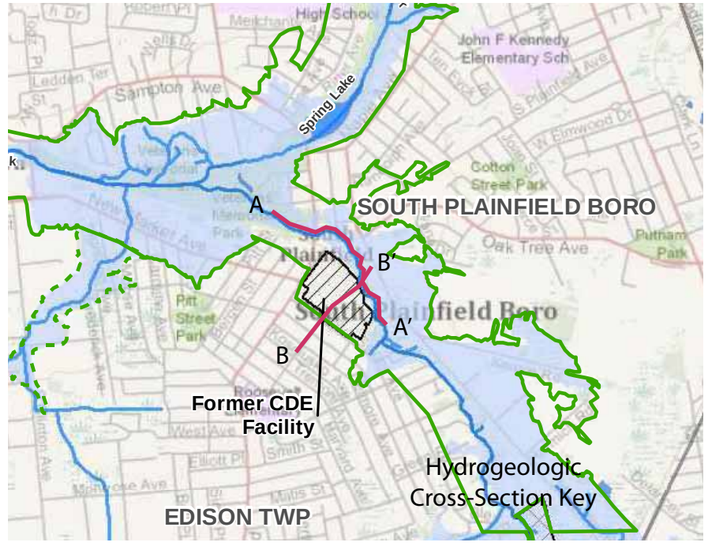
0 125 250 500

Feet

Line of Equal Water Level Elevation (ft msl) (dashed where inferred) July 9, 2010

Water Table

Refer to Figure 7-8 for sample location map



CORNELL-DUBILIER ELECTRONICS
SUPERFUND SITE
South Plainfield, New Jersey

DRAFT FINAL

OU3 Groundwater and OU4 Porewater TCE Concentrations with Isocontours (B-B')
Bound Brook OU4 RI/FS

2013

Figure 7-16

B

B'

ERT-8

MW-15S/D

MW-14S/D

MW-11

MW-04

PW-08

SG-1

1,700 E/750 E

MW-13

Feet (bgs)

Elevation (msl)

100

0

-100

-200

-300

-400

-500

100

200

300

400

500

Vertical Exaggeration (VE) = 2.5

ND
ND
ND
ND
ND
ND
ND

61

450
160
13
13

46,000
43,000
32,000
15,000
1,300
53,000
900
240

15,000

59

60

14
100
120
180
88
69
63

Monitoring Well ID

MW-14S/D

Pore Water Sampling Location

PW-08

Event 1/Event 2 (ug/L)

Flute Port

Aqueous DCE (ug/L)

13

Stream Gage

SG-1

Estimated Aqueous Concentration > 1,000 ug/l

Estimated Aqueous Concentration > 100 ug/l

Estimated Aqueous Concentration > 10 ug/l

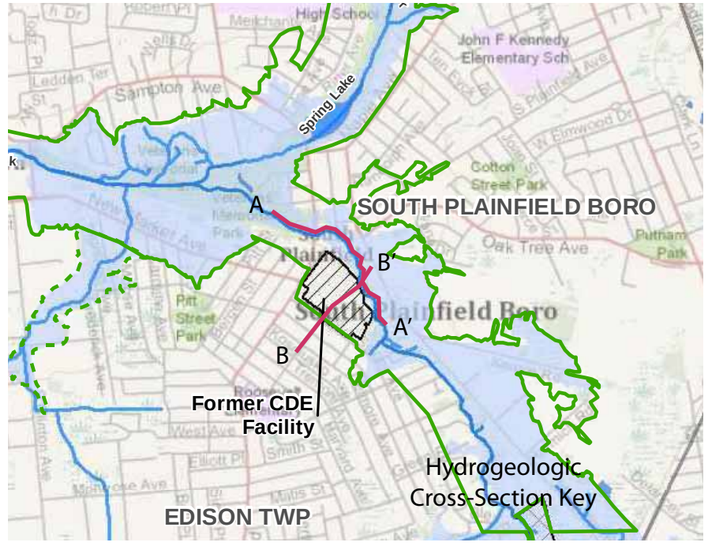
0 125 250 500

Feet

Line of Equal Water Level Elevation (ft msl) (dashed where inferred) July 9, 2010

Water Table

Refer to Figure 7-8 for sample location map



CORNELL-DUBILIER ELECTRONICS
SUPERFUND SITE
South Plainfield, New Jersey

DRAFT FINAL

OU3 Groundwater and OU4 Porewater DCE Concentrations with Isocontours (B-B')

Bound Brook OU4 RI/FS

2013

Figure 7-17

B

B'

ERT-8

MW-15S/D

MW-14S/D

MW-11

MW-04

PW-08

SG-1

680/1,700

MW-13

Feet (bgs)

Elevation (msl)

100

0

-100

-200

-300

-400

-500

100

200

300

400

500

Vertical Exaggeration (VE) = 2.5

ND

61

21 J

530 J

14

150

41 J

860 J

49

59

60

7

1.6

0.36 J

0.88

1.6

1.8

2.2

0.85

0.37 J

Monitoring Well ID

MW-14S/D

Pore Water Sampling Location

PW-08

Event 1/Event 2 (ug/L)

Flute Port

Aqueous Vinyl Chloride (ug/L)

14

Stream Gage

SG-1

Estimated Aqueous Concentration > 1,000 ug/l

Estimated Aqueous Concentration > 100 ug/l

Estimated Aqueous Concentration > 10 ug/l

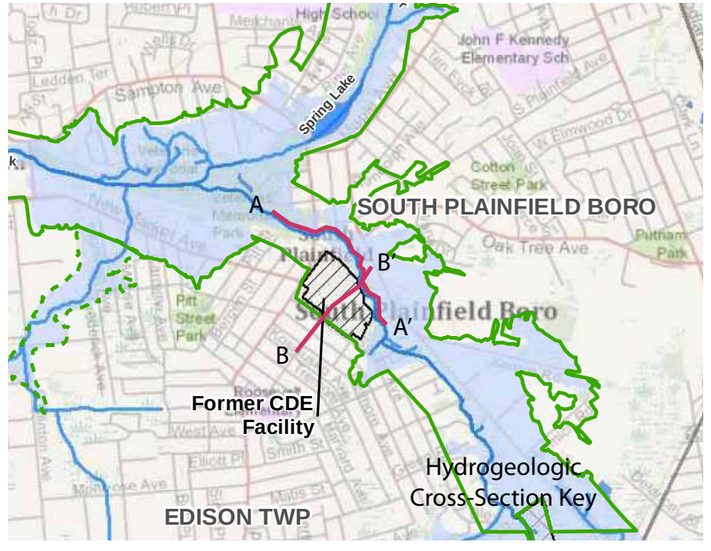
0 125 250 500

Feet

Line of Equal Water Level Elevation (ft msl) (dashed where inferred) July 9, 2010

Water Table

Refer to Figure 7-8 for sample location map



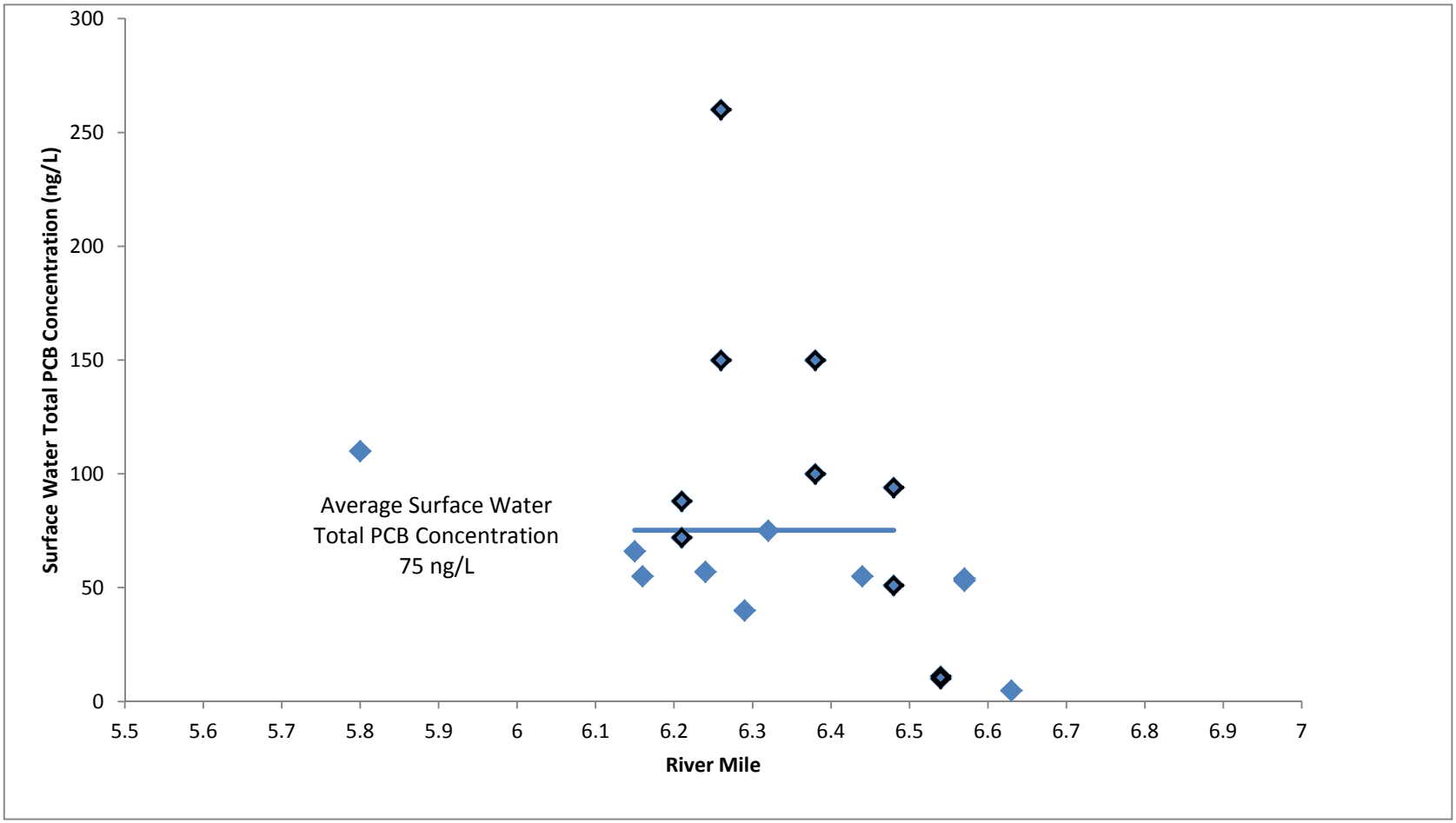
CORNELL-DUBILIER ELECTRONICS
SUPERFUND SITE
South Plainfield, New Jersey

OU3 Groundwater and OU4 Porewater Vinyl Chloride Concentrations with Isocontours (B-B')

Bound Brook OU4 RI/FS

2013

Figure 7-18



LEGEND:

- Surface Water PCB Concentration (ng/L)
- Surface Water PCB Concentration (ng/L) - Colocated Sites

NOTES:

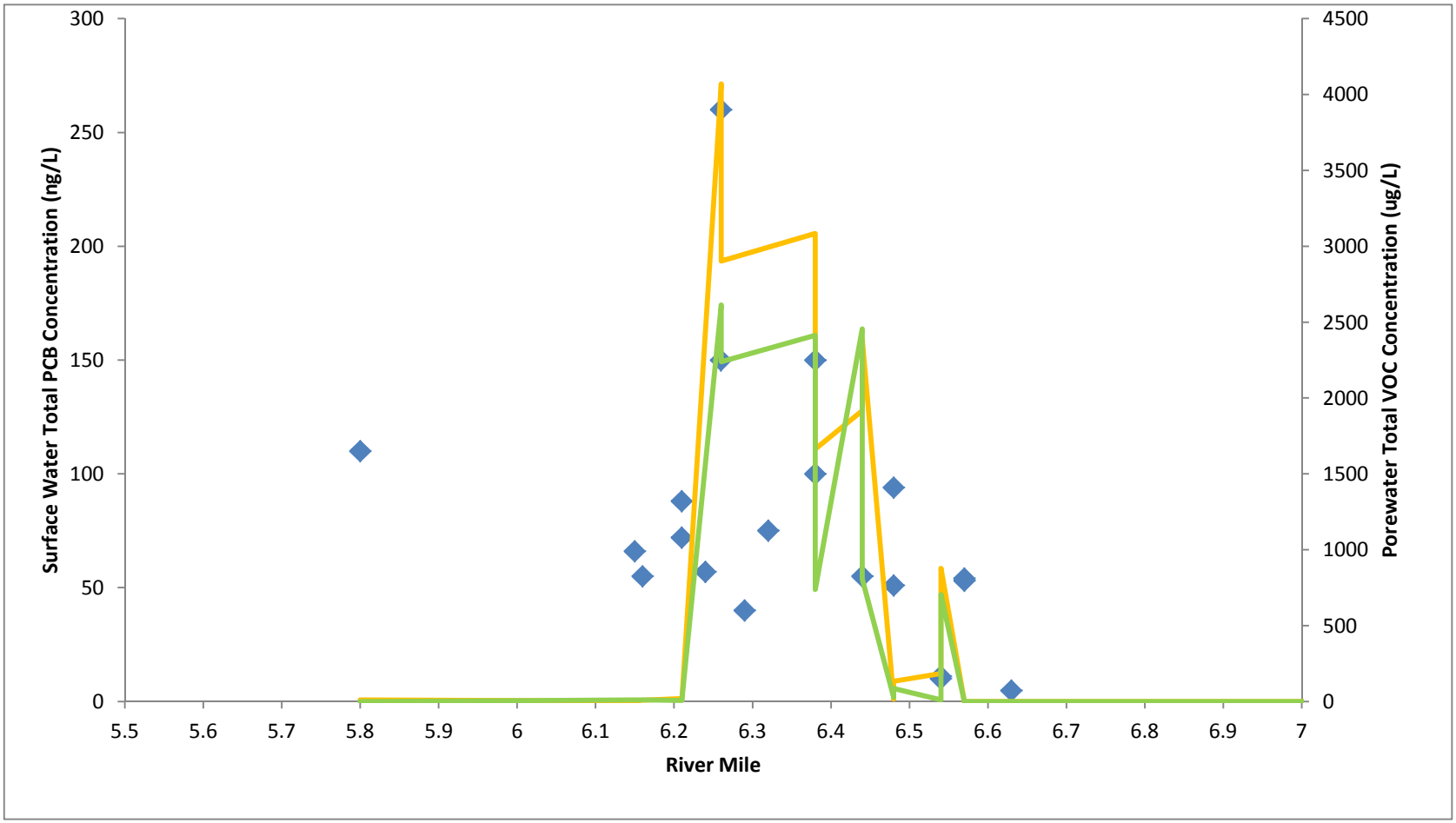
1. Surface water Total PCB concentrations measured using polyethylene passive samplers that were corrected for equilibrium concentrations. Deployed July 17-19, 2012, Retrieved August 21-24, 2012.
2. Total PCB represents the sum of congeners following Method 1668C. Nondetects were incorporated into the summation as half the detection limit.

Cornell-Dubilier Electronics
Superfund Site
South Plainfield, NJ

Bound Brook Surface Water Total PCB Concentration near the Former CDE Facility
Bound Brook OU4 RI/FS

2013

FIGURE 7-19



LEGEND:

- Surface Water PCB Concentration (ng/L)
- Porewater VOC Concentration (ug/L) - Sampling Event 1
- Porewater VOC Concentration (ug/L) - Sampling Event 2

NOTES:

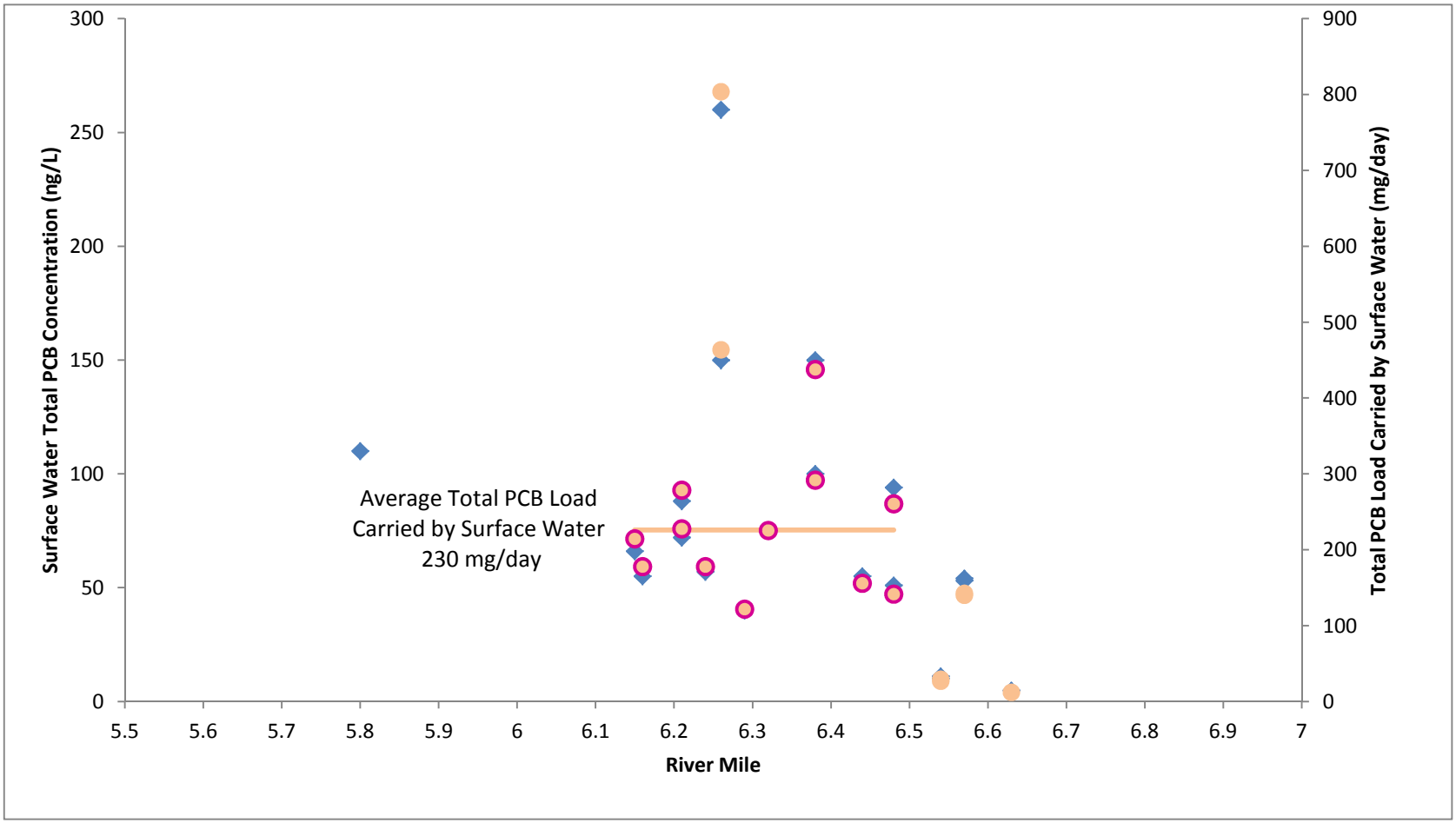
1. Refer to Figure 7-11 and Figure 7-19 for additional notes on data.
2. Total PCB represents the sum of congeners following Method 1668C. Nondetects were incorporated into the summation as half the detection limit.
3. Total VOC represents the summation of detected TCL VOC analytes.

Cornell-Dubilier Electronics Superfund Site
South Plainfield, NJ

Bound Brook Surface Water Total PCB and Porewater Total VOC Concentrations near the Former CDE Facility
Bound Brook OU4 RI/FS

2013

FIGURE 7-20



LEGEND:

- Surface Water PCB Concentration (ng/L)
- Total PCB Load Carried by Surface Water (mg/day)
- Total PCB Load Carried by Surface Water (mg/day) - included in average

NOTES:

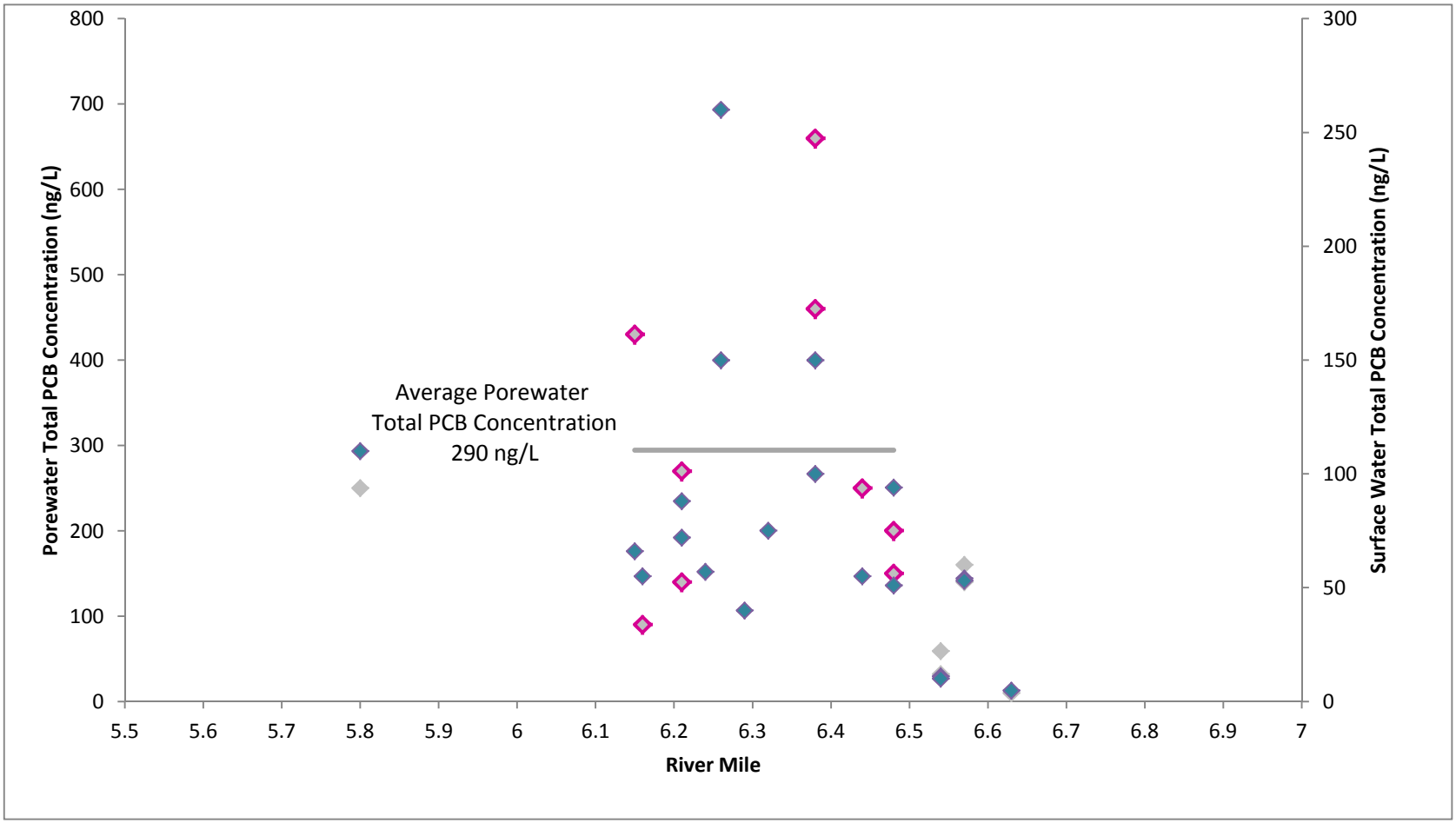
1. Surface water Total PCB concentrations measured using polyethylene passive samplers that were corrected for equilibrium concentrations. Deployed July 17-19, 2012, Retrieved August 21-24, 2012.
2. Total PCB load carried by surface water was estimated using linear regression line between RM7.4 and RM6.0 during July 2011 stream flow survey to estimate baseflow.
3. Total PCB represents the sum of congeners following Method 1668C. Nondetects were incorporated into the summation as half the detection limit.

Cornell-Dubilier Electronics Superfund Site
South Plainfield, NJ

Bound Brook Total PCB Load Carried by Surface Water
Bound Brook OU4 RI/FS

2013

FIGURE 7-21



LEGEND:

- Porewater PCB Concentration (ng/L)
- Porewater PCB Concentration (ng/L) - included in average
- Surface Water PCB Concentration (ng/L)

NOTES:

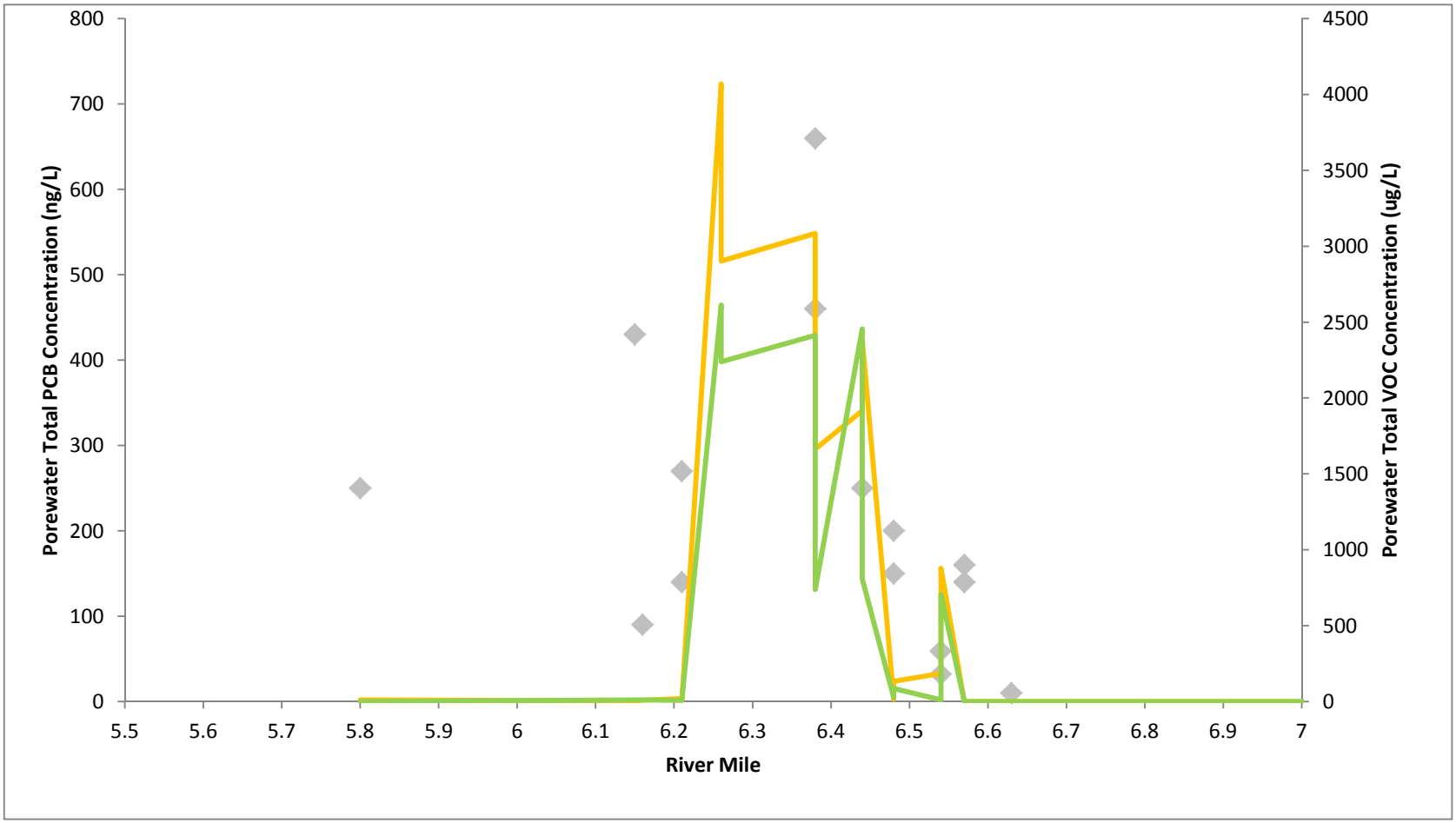
1. Surface water and porewater Total PCB concentrations measured using polyethylene passive samplers that were corrected for equilibrium concentrations. Deployed July 17-19, 2012, Retrieved August 21-24, 2012.
2. Total PCB represents the sum of congeners following Method 1668C. Nondetects were incorporated into the summation as half the detection limit.
3. Porewater concentrations at locations PW13 and PW14 not presented on figure.
4. Porewater concentrations represent 0-5 cm depth in sediment bed.

Cornell-Dubilier Electronics
Superfund Site
South Plainfield, NJ

Bound Brook Porewater (0-5 cm) and Surface Water Total PCB Concentrations
Bound Brook OU4 RI/FS

2013

FIGURE 7-22



LEGEND:

- Porewater PCB Concentration (ng/L)
- Porewater VOC Concentration (ug/L) - Sampling Event 1
- Porewater VOC Concentration (ug/L) - Sampling Event 2

NOTES:

1. Refer to Figure 7-11 and Figure 7-22 for additional notes on data.
2. Total PCB represents the sum of congeners following Method 1668C. Nondetects were incorporated into the summation as half the detection limit.
3. Total VOC represents the summation of detected TCL VOC analytes.
4. Porewater concentrations at locations PW13 and PW14 not presented on figure.
5. Porewater concentrations represent 0-5 cm depth in sediment bed.

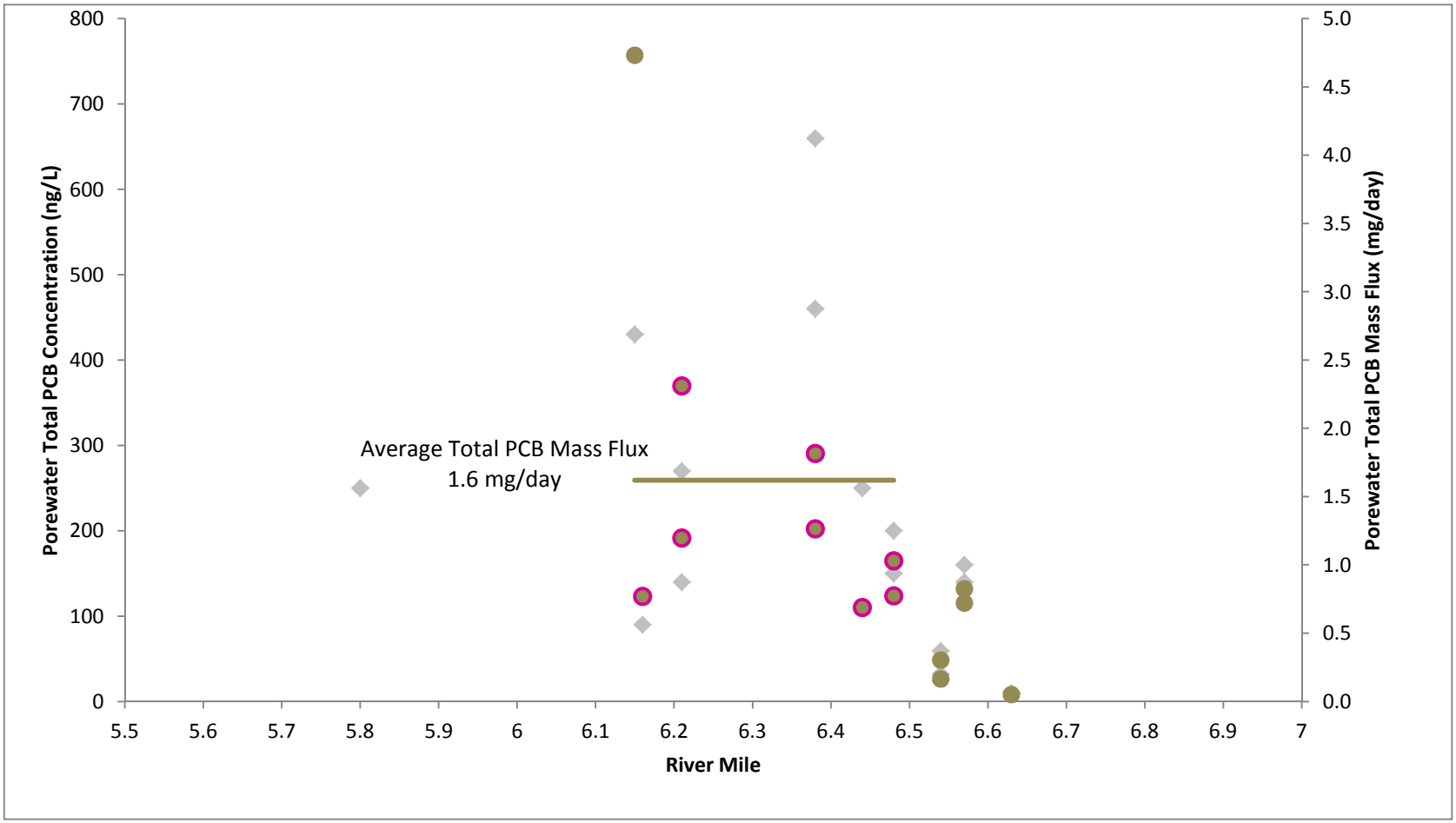
Cornell-Dubilier Electronics Superfund Site
South Plainfield, NJ

Bound Brook Porewater Total PCB and Porewater Total VOC Concentrations near the Former CDE Facility

Bound Brook OU4 RI/FS

2013

FIGURE 7-23



LEGEND:

- Porewater PCB Concentration (ng/L)
- Porewater PCB Mass Flux (mg/day)
- Porewater PCB Mass Flux (mg/day) - included in average

NOTES:

1. Refer to Figure 7-22 for additional notes on data.
2. Total PCB represents the sum of congeners following Method 1668C. Nondetects were incorporated into the summation as half the detection limit.
3. Porewater concentrations at locations PW13 and PW14 not presented on figure.
4. Porewater concentrations represent 0-5 cm depth in sediment bed.

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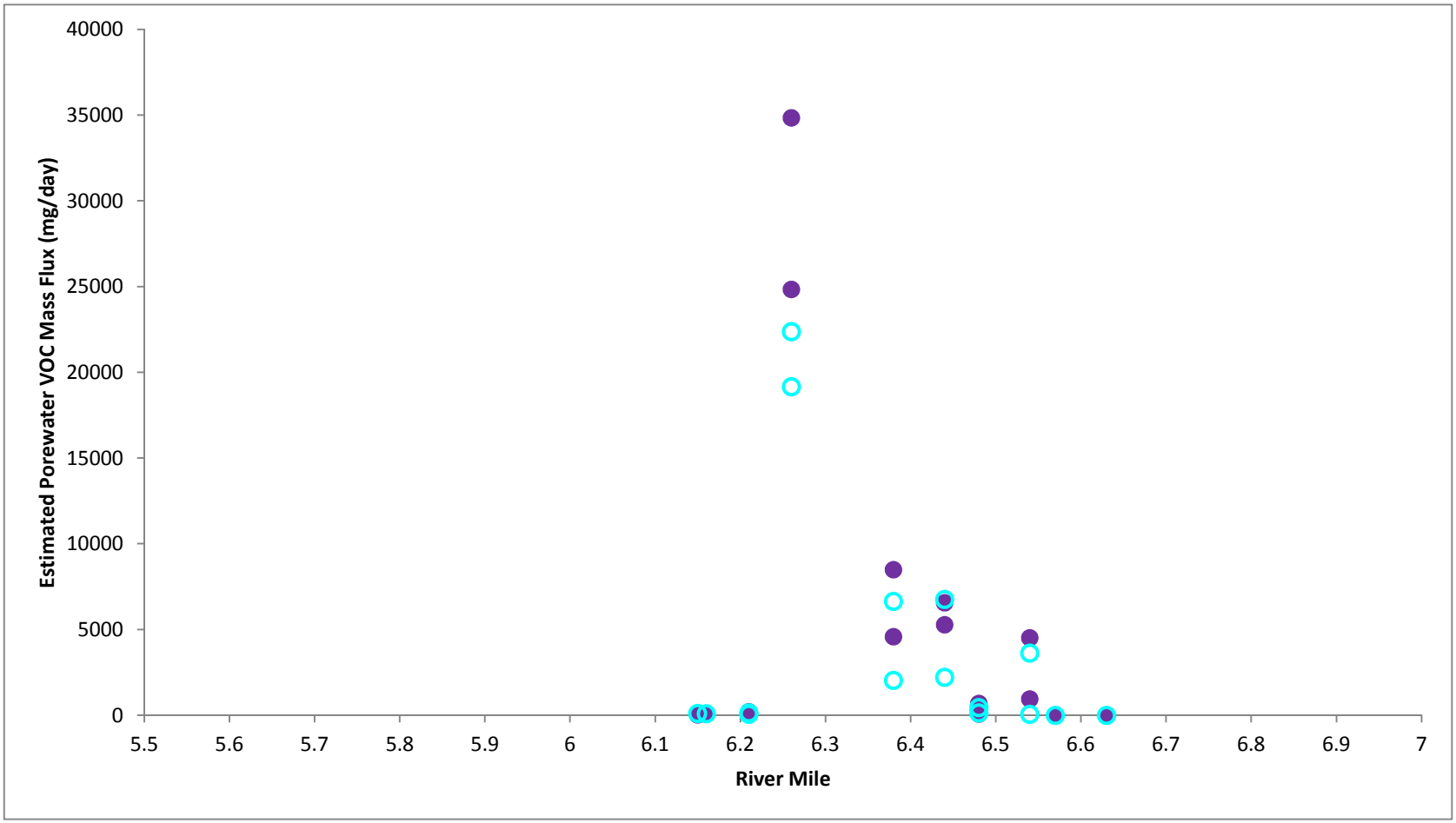
Superfund Site
South Plainfield, NJ

Bound Brook Porewater Total PCB Concentration and Mass Flux
Bound Brook OU4 RI/FS

2013

FIGURE 7-24



LEGEND:

- Porewater VOC Mass Flux (mg/day) - Sampling Event 1
- Porewater VOC Mass Flux (mg/day) - Sampling Event 2

NOTES:

1. Refer to Figure 7-11 for additional notes on data.
2. Total VOC represents the summation of detected TCL VOC analytes.
3. Impacts to surface water or calculation of a total VOC mass load are not presented due to the volatile nature of these compounds.

Cornell-Dubilier Electronics Superfund Site
South Plainfield, NJ

Bound Brook Porewater Estimated Total VOC Mass Flux
Bound Brook OU4 RI/FS

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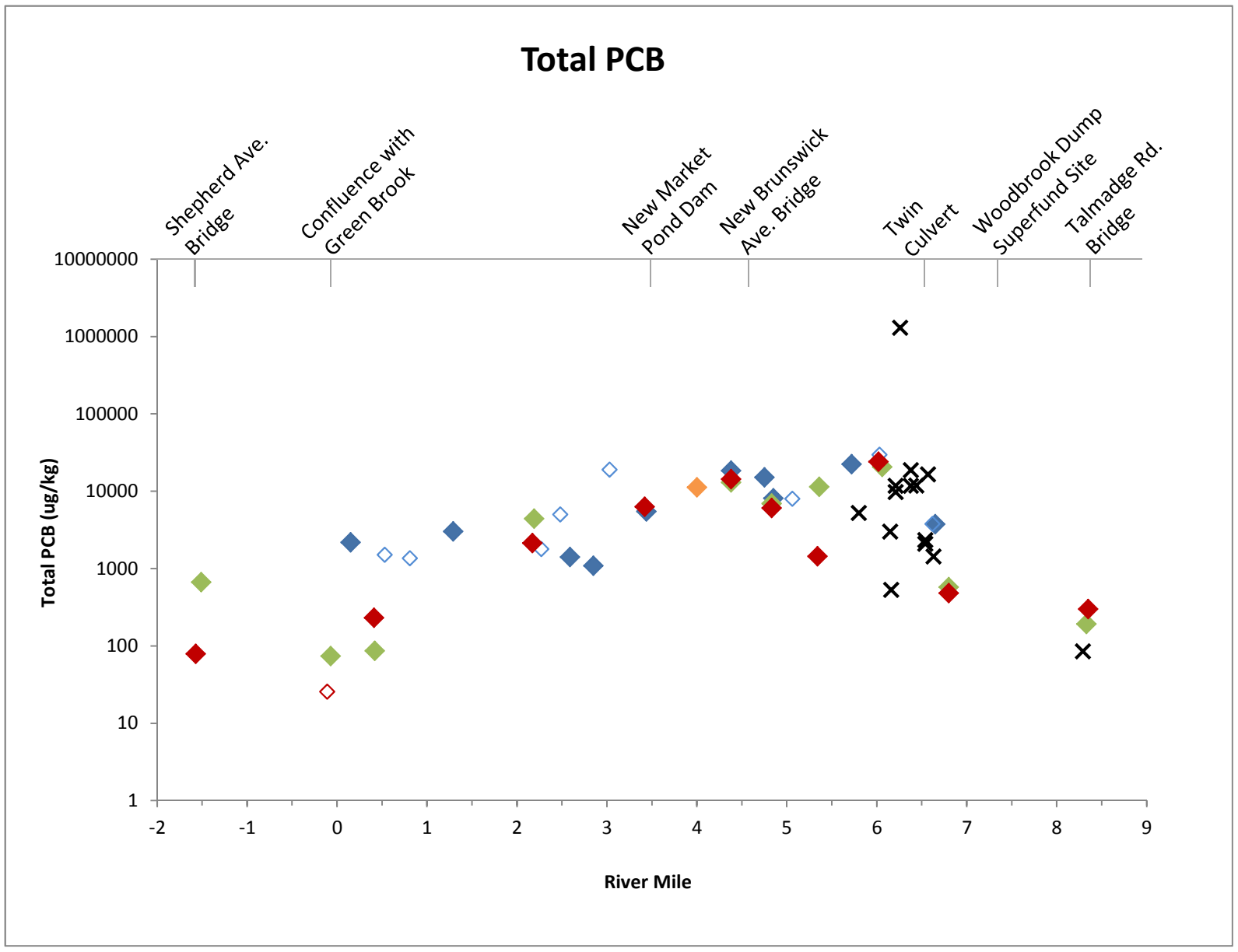
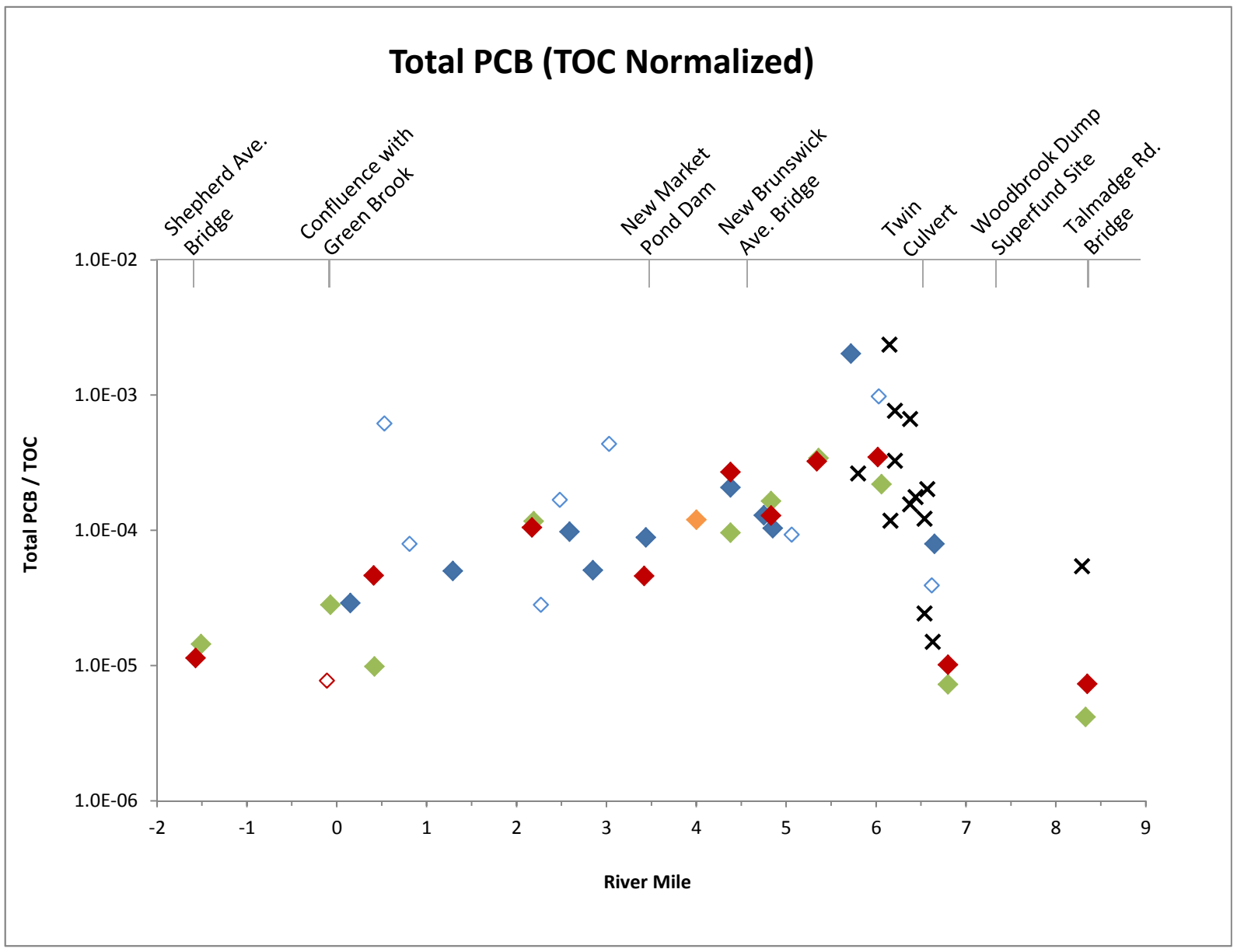
FIGURE 7-25





LEGEND:

- April 2011 Surface Sediment (Be7 bearing)
- April 2011 Surface Sediment (non-Be7 bearing)
- April 2011 High Resolution Core Top (Be7 bearing)
- Nov 2011 Surface Sediment (Be7 bearing)
- Nov 2011 Sediment Trap (Be7 bearing)
- Nov 2011 Sediment Trap (non-Be7 bearing)
- Aug 2012 Porewater Co-located Surface Sediment (0-5 cm)

TOC denotes Total Organic Carbon

NOTES:

1. Filled symbols indicate the presence of Be7 at a concentration greater than 0.5 pCi/g; open symbols indicate a Be7 concentration less than 0.5 pCi/g.
2. For samples with field duplicates, the average concentration is presented.
3. High resolution core top represents the average of the first two slices (0-6 cm total) since both slices were Be7 bearing and had a moisture content of approximately 70 percent.
4. Total PCB represents the sum of congeners. Nondetects are incorporated into the summation as zero.

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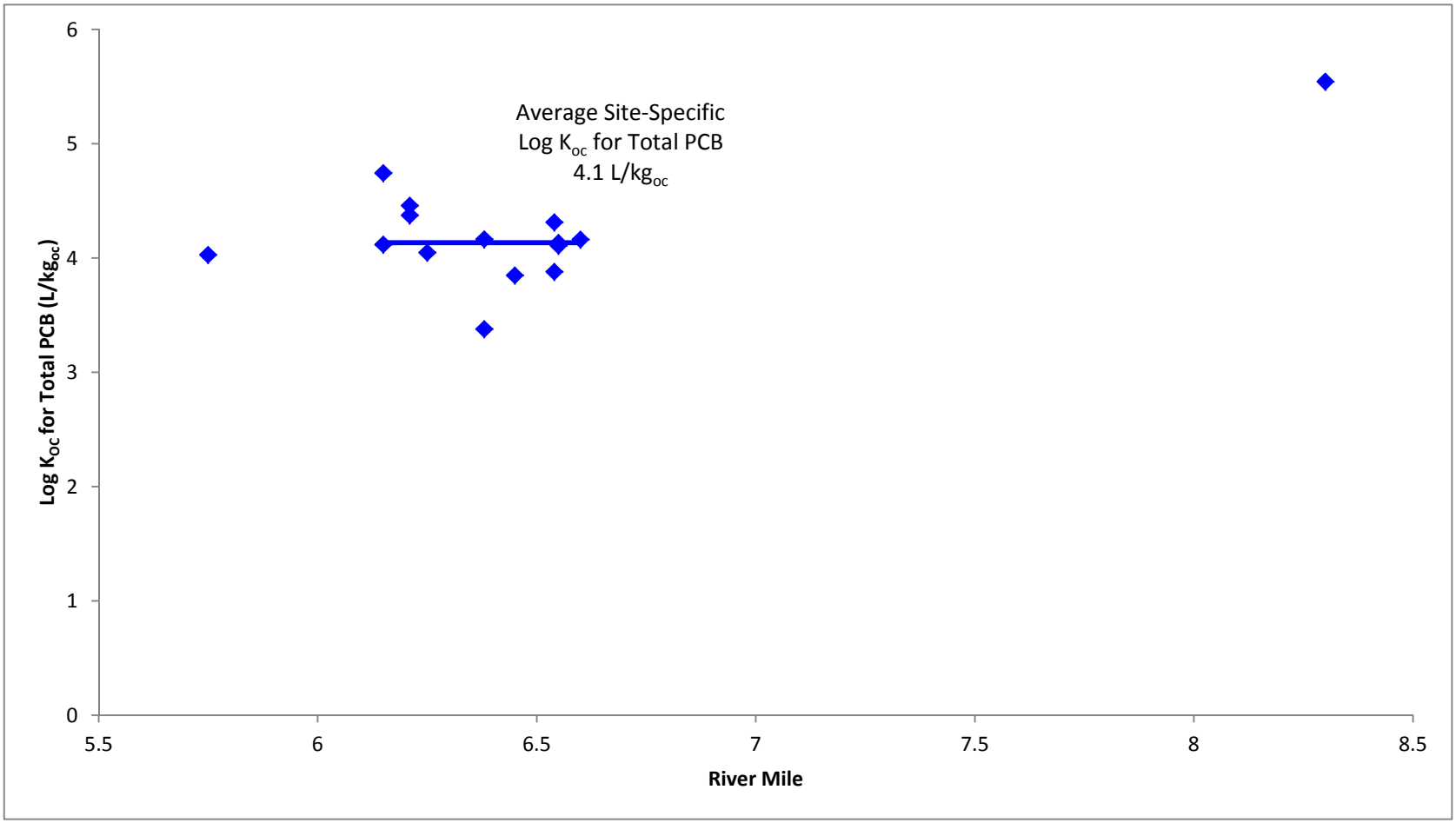
Total PCB Surface Sediment Concentration
Bound Brook OU4 RI/FS

2013

FIGURE 7-26



LEGEND:

- Site-Specific Log K_{oc} Values
- Average Site-Specific Log K_{oc} Value

NOTES:

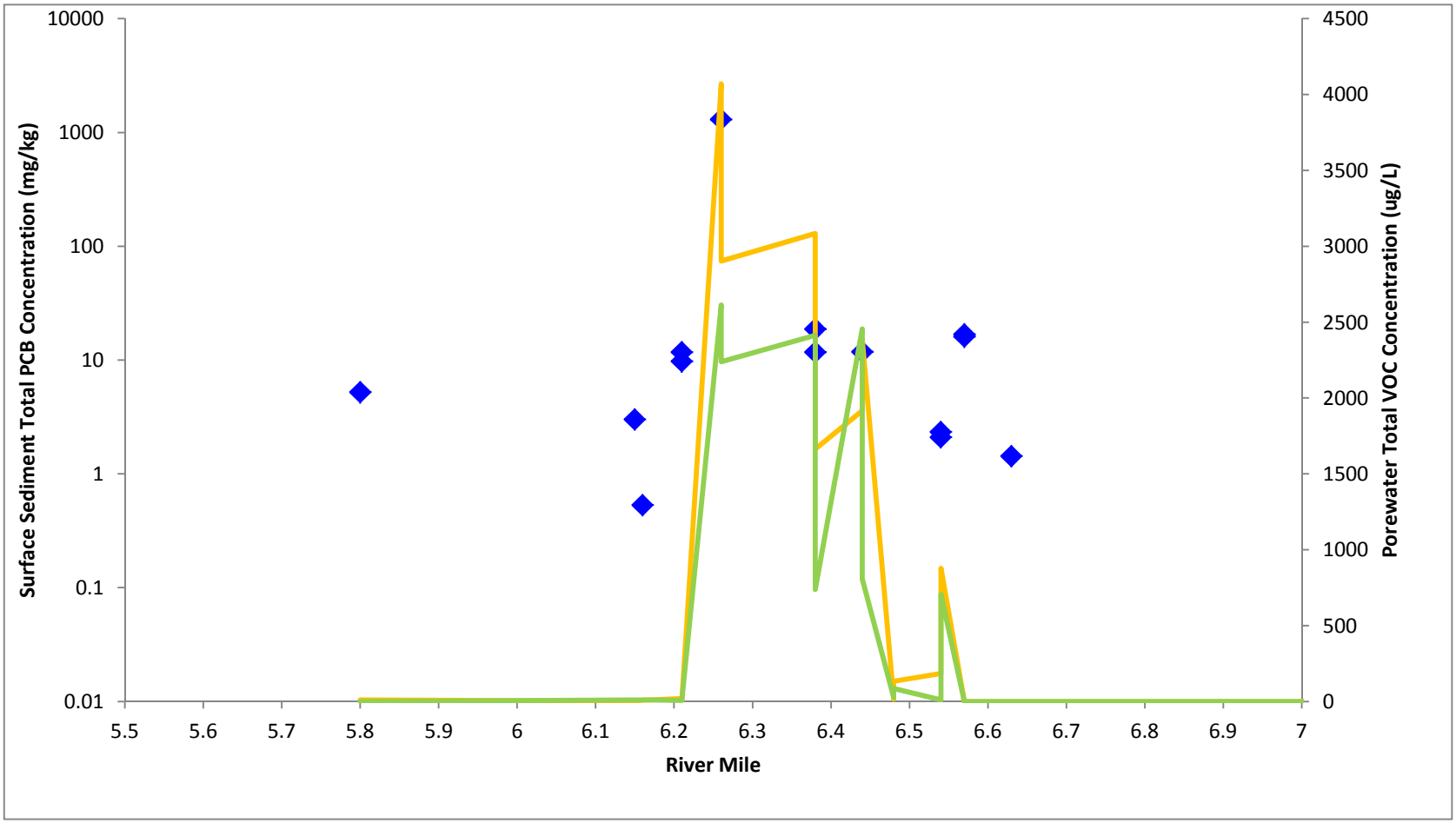
1. Log K_{oc} values for Total PCB in co-located sediment and porewater samples (0-5 cm depth interval) are presented.
2. Site-specific partitioning coefficients are normalized to sediment organic carbon content.

Cornell-Dubilier Electronics Superfund Site
South Plainfield, NJ

Site-Specific Log K_{oc} Values for Porewater-Sediment Samples (0-5 cm)
Bound Brook OU4 RI/FS

2013

FIGURE 7-27



LEGEND:

- Surface Sediment Total PCB Concentration (mg/kg)
- Porewater VOC Concentration (ug/L) - Sampling Event 1
- Porewater VOC Concentration (ug/L) - Sampling Event 2

NOTES:

1. Refer to Figure 7-11 for additional notes on data.
2. Surface sediment samples were co-located with polyethylene passive samplers and were collected at the time of passive sampler retrieval (August 21-24, 2012).
3. Total PCB represents the sum of congeners following Method 1668C. Nondetects were incorporated into the summation as zero.
4. Total VOC represents the summation of detected TCL VOC analytes.
5. Surface sediment concentrations represent 0-5 cm depth in sediment bed.

Cornell-Dubilier Electronics Superfund Site
South Plainfield, NJ

Bound Brook Surface Sediment Total PCB and Porewater Total VOC Concentration near the Former CDE Facility
Bound Brook OU4 RI/FS

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FIGURE 7-28